Service Manual

PIONEER
The Art of Entertainment

PION-04981

ORDER NO.
RRV1505

STEREO CD CASSETTE DECK RECEIVER

XR-P460
XR-P460R

● **Refer to the service manual RRV1451 for XR-P260/NVXK, XR-P360/MYXK/EA, MYXK/EB and MYIXK.**

+4872 2/33/12/5

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model		Power Requirement	Remarks
	XR-P460	XR-P460R		
MYXK/EA	—	○	AC220–230V	
MYXK/EB	—	○	AC220–230V	
MYIXK	—	○	AC220–230V	
NVXK	○	—	AC230V	

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4381

CONTRAST OF MISCELLANEOUS PARTS

NOTES :

- *Parts marked by* " NSP " *are generally unavailable because they are not in our Master Spare Parts List.*
- *The* ⚠ *mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by* " ◉ " *are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex. 1 *When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).*

$560\Omega \rightarrow 56 \times 10^1 = 561$ .... RD1/4PU$\boxed{5}\boxed{6}\boxed{1}$J
$47k\Omega \rightarrow 47 \times 10^3 = 473$ .... RD1/4PU$\boxed{4}\boxed{7}\boxed{3}$J
$0.5\Omega \rightarrow$ 0R5 .... RN2H$\boxed{0}\boxed{R}\boxed{5}$K
$1\Omega \rightarrow$ 1R0 .... RS1P$\boxed{1}\boxed{R}\boxed{0}$K

Ex. 2 *When there are 3 effective digits (such as in high precision metal film resistors).*

$5.62k\Omega \rightarrow 562 \times 10^1 = 5621$ .... RN1/4PC$\boxed{5}\boxed{6}\boxed{2}\boxed{1}$F

■ FOR XR-P460/NVXK

● Contrast of XR-P460/NVXK and XR-P260/NVXK

XR-P460/NVXK and XR-P260/NVXK have the same construction except for the following:

Mark	Symbol & Description	Part No.		Remarks
		XR-P260/NVXK	XR-P460/NVXK	
NSP	MAIN ASSY	AWK7201	AWK7259	
⚠	AF ASSY	AWZ7808	AWZ8099	
	VR ASSY	AWZ7822	AWZ8102	
NSP	COMPLEX ASSY	AWM7155	AWM7219	
	DISPLAY ASSY	AWZ7826	AWZ8383	
	H. P. ASSY	AWZ7830	AWZ8385	*
	PAC FAN ASSY	AWZ7833	AWZ8382	
	FL plate	AAK7193	AAK7258	
	Rear panel	ANC7271	ANC7421	
	Packing case	AHD7210	AHD7297	

*Note *: Although AWZ8385 and AWZ7830 are different in part number, they consist of the same components.*

AF Assy

AWZ8099 and AWZ7808 have the same construction except for the following:

Mark	Symbol & Description	Part No.		Remarks
		AWZ7808	AWZ8099	
	C8101, C8301	CEAS330M16	CEAS221M16	

VR Assy

AWZ8102 and AWZ7822 have the same construction except for the following:

Mark	Symbol & Description	Part No.		Remarks
		AWZ7822	AWZ8102	
	C1501–C1504	CEAS4R7M50	CEAS2R2M50	
	C1511, C1512	CEAS010M50	CEZA220M25	
	C1513, C1514	CKSQYB683K25	CKSQYB473K50	
	C1515, C1516	CKSQYB473K50	CKSQYB393K50	
	R1509, R1510, R1515, R1516	RS1/10S683J	RS1/10S563J	

DISPLAY Assy

AWZ8383 and AWZ7826 have the same construction except for the following:

Mark	Symbol & Description	Part No.		Remarks
		AWZ7826	AWZ8383	
	D1722, D1724, D1726, D1728	GL1EG21	GL1HS21	

PAC FAN Assy

AWZ8382 and AWZ7833 have the same construction except for the following:

Mark	Symbol & Description	Part No.		Remarks
		AWZ7833	AWZ8382	
	C2403, C2404	CEAS0R1M50	CEASR22M50	

■ FOR XR-P460R/MYXK/EA, MYXK/EB AND MYIXK

● Contrast of XR-P460R/MYXK/EA and XR-P360/MYXK/EA

XR-P460R/MYXK/EA and XR-P360/MYXK/EA have the same construction except for the following:

Mark	Symbol & Description	Part No.		Remarks
		XR-P360/MYXK/EA	XR-P460R/MYXK/EA	
NSP	MAIN ASSY	AWK7205	AWK7260	
⚠	AF ASSY	AWZ7810	AWZ8100	
	VR ASSY	AWZ7824	AWZ8103	
NSP	COMPLEX ASSY	AWM7157	AWM7220	
	DISPLAY ASSY	AWZ7828	AWZ8384	
	H. P. ASSY	AWZ7830	AWZ8385	*
	PAC FAN ASSY	AWZ7833	AWZ8382	
	FL plate	AAK7206	AAK7259	
	Rear panel	ANC7281	ANC7422	
	Packing case	AHD7224	AHD7298	

*Note *: Although AWZ8385 and AWZ7830 are different in part number, they consist of the same components.*

● Contrast of XR-P460R/MYXK/EB and XR-P360/MYXK/EB

XR-P460R/MYXK/EB and XR-P360/MYXK/EB have the same construction except for the following:

Mark	Symbol & Description	Part No.		Remarks
		XR-P360/MYXK/EB	XR-P460R/MYXK/EB	
NSP	MAIN ASSY	AWK7205	AWK7260	
⚠	AF ASSY	AWZ7810	AWZ8100	
	VR ASSY	AWZ7824	AWZ8103	
NSP	COMPLEX ASSY	AWM7157	AWM7220	
	DISPLAY ASSY	AWZ7828	AWZ8384	
	H. P. ASSY	AWZ7830	AWZ8385	*
	PAC FAN ASSY	AWZ7833	AWZ8382	
	FL plate	AAK7206	AAK7259	
	Rear panel	ANC7281	ANC7422	
	Packing case	AHD7224	AHD7298	

*Note *: Although AWZ8385 and AWZ7830 are different in part number, they consist of the same components.*

● Contrast of XR-P460R/MYIXK and XR-P360/MYIXK

XR-P460R/MYIXK and XR-P360/MYIXK have the same construction except for the following:

Mark	Symbol & Description	Part No.		Remarks
		XR-P360/MYIXK	XR-P460R/MYIXK	
NSP	MAIN ASSY	AWK7205	AWK7260	
⚠	AF ASSY	AWZ7810	AWZ8100	
	VR ASSY	AWZ7824	AWZ8103	
NSP	COMPLEX ASSY	AWM7157	AWM7220	
	DISPLAY ASSY	AWZ7828	AWZ8384	
	H. P. ASSY	AWZ7830	AWZ8385	*
	PAC FAN ASSY	AWZ7833	AWZ8382	
	FL plate	AAK7206	AAK7259	
	Rear panel	ANC7281	ANC7422	
	Packing case	AHD7224	AHD7298	

*Note *: Although AWZ8385 and AWZ7830 are different in part number, they consist of the same components.*

AF Assy

AWZ8100 and AWZ7810 have the same construction except for the following:

Mark	Symbol & Description	Part No.		Remarks
		AWZ7810	AWZ8100	
	C8101, C8301	CEAS330M16	CEAS221M16	

VR Assy

AWZ8103 and AWZ7824 have the same construction except for the following:

Mark	Symbol & Description	Part No.		Remarks
		AWZ7824	AWZ8103	
	C1501–C1504	CEAS4R7M50	CEAS2R2M50	
	C1511, C1512	CEAS010M50	CEZA220M25	
	C1513, C1514	CKSQYB683K25	CKSQYB473K50	
	C1515, C1516	CKSQYB473K50	CKSQYB393K50	
	R1509, R1510, R1515, R1516	RS1/10S683J	RS1/10S563J	

DISPLAY Assy

AWZ8384 and AWZ7828 have the same construction except for the following:

Mark	Symbol & Description	Part No.		Remarks
		AWZ7828	AWZ8384	
	D1722, D1724, D1726, D1728	GL1EG21	GL1HS21	

PAC FAN Assy

AWZ8382 and AWZ7833 have the same construction except for the following:

Mark	Symbol & Description	Part No.		Remarks
		AWZ7833	AWZ8382	
	C2403, C2404	CEAS0R1M50	CEASR22M50	

PIONEER®
The Art of Entertainment

PION-04872

Service Manual

ORDER NO.
RRV1451

STEREO CD CASSETTE DECK RECEIVER

XR-P260
XR-P360

● Refer to the service manual RRV1410 for XR-P360/DD.

+4863 2/25/15/3

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model		Power Requirement	Remarks
	XR-P260	XR-P360		
MYXK/EA	○	○	AC220–230V	
MYXK/EB	○	○	AC220–230V	
MYIXK	○	○	AC220–230V	
NVXK	○	○	AC230V	

CONTENTS

1. SAFETY INFORMATION 2
2. CONTRAST OF MISCELLANEOUS PARTS ... 3
3. SCHEMATIC AND PCB DIAGRAMS 11
4. ADJUSTMENTS 18

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4872

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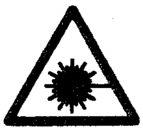
1. SAFETY INFORMATION

(FOR EUROPEAN MODEL ONLY)

VARO !
AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

ADVERSEL:
USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION UNDGÅ UDSAETTELSE FOR STRÅLING.

VARNING !
OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.

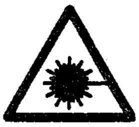


LASER
Kuva 1
Lasersateilyn varoitusmerkki

WARNING !
DEVICE INCLUDES LASER DIODE WHICH EMITS INVISIBLE INFRARED RADIATION WHICH IS DANGEROUS TO EYES. THERE IS A WARNING SIGN ACCORDING TO PICTURE 1 INSIDE THE DEVICE CLOSE TO THE LASER DIODE.

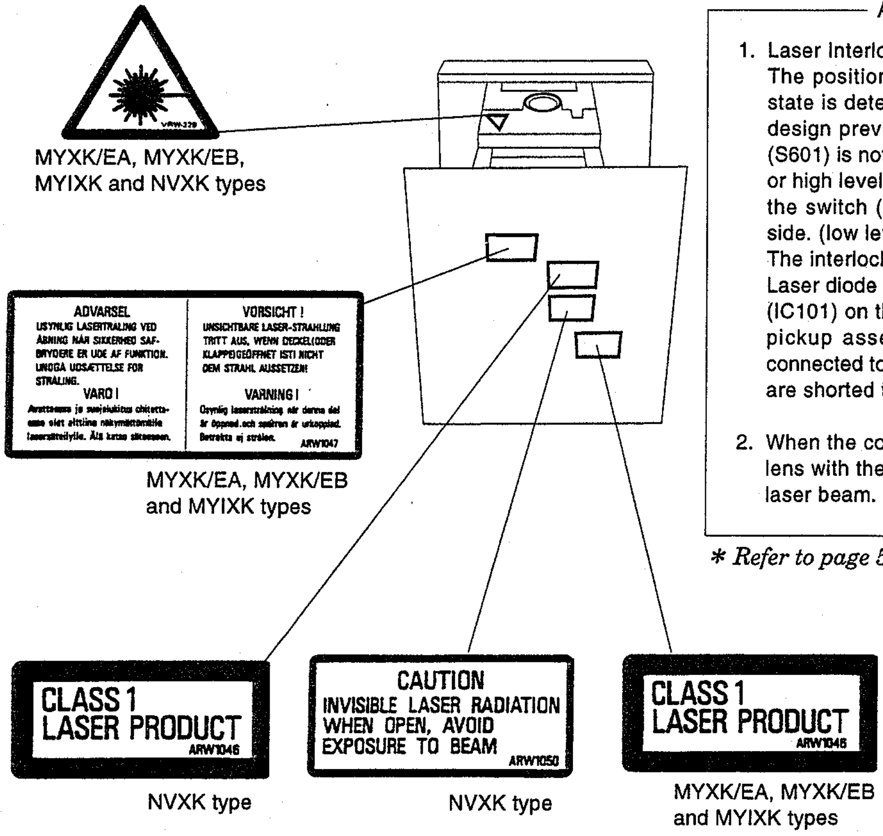
IMPORTANT
THIS PIONEER APPARATUS CONTAINS LASER OF CLASS 1.
SERVICING OPERATION OF THE APPARATUS SHOULD BE DONE BY A SPECIALLY INSTRUTED PERSON.

LASER DIODE CHARACTERISTICS
MAXIMUM OUTPUT POWER: 5 mw
WAVELENGTH: 780 – 785 nm



LASER
Picture 1
Warning sign for laser radiation

LABEL CHECK


VRW-329
MYXK/EA, MYXK/EB, MYIXK and NVXK types
ADVARSEL
USYNLIG LASERTRALING VED ÅBNING NÅR SIKKERHED SAF-BRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARO !
VORSICHT !
UNSICHTBARE LASER-STRAHLUNG TRITT AUS, WENN DECKEL(ODER KLAPPE)GEÖFFNET IST! NICHT DEM STRAHL AUSSETZEN!
VARNING !
Betrakta ej strålen.
ARW1047
MYXK/EA, MYXK/EB and MYIXK types
CLASS 1 LASER PRODUCT
ARW1046
NVXK type
CAUTION
INVISIBLE LASER RADIATION WHEN OPEN, AVOID EXPOSURE TO BEAM
ARW1050
NVXK type
CLASS 1 LASER PRODUCT
ARW1046
MYXK/EA, MYXK/EB and MYIXK types

Additional Laser Caution

1. Laser Interlock Mechanism
   The position of the switch (S601) for detecting loading state is detected by the system microprocessor, and the design prevents laser diode oscillation when the switch (S601) is not on $\overline{\text{CLMP}}$ terminal side ($\overline{\text{CLMP}}$ signal is OFF or high level.) Thus, the interlock will no longer function if the switch (S601) is deliberately set to $\overline{\text{CLMP}}$ terminal side. (low level)
   The interlock also does not function in the test mode*.
   Laser diode oscillation will continue, if pin 1 of M51593FP (IC101) on the PRE-AMP BOARD ASSY mounted on the pickup assembly is connected to GND, or pin 19 is connected to low level (ON), or else the terminals of Q101 are shorted to each other (fault condition).
2. When the cover is opened, close viewing of the objective lens with the naked eye will cause exposure to a Class 1 laser beam.

'92S1B

** Refer to page 58 on the service manual RRV1410.*

2. CONTRAST OF MISCELLANEOUS PARTS

NOTES :

- *Parts marked by* " NSP " *are generally unavailable because they are not in our Master Spare Parts List.*
- *The* ⚠ *mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by* " ◉ " *are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

560Ω → 56 x 10¹ = 561 .... RD1/4PU$\boxed{5}\boxed{6}\boxed{1}$*J*
47kΩ → 47 x 10³ = 473 .... RD1/4PU$\boxed{4}\boxed{7}\boxed{3}$*J*
0.5Ω → 0R5 .... RN2H$\boxed{0}\boxed{R}\boxed{5}$*K*
1Ω → 1R0 .... RS1P$\boxed{1}\boxed{R}\boxed{0}$*K*

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62kΩ → 562 x 10¹ = 5621 .... RM1/4PC$\boxed{5}\boxed{6}\boxed{2}\boxed{1}$*F*

■ FOR XR-P260/MYXK/EA, MYXK/EB, MYIXK AND NVXK

XR-P260/MYXK/EA, MYXK/EB, MYIXK, NVXK and XR-P360/DD have the same construction except for the following:

Mark	Symbol & Description	Part No.					Remarks
		XR-P360/ DD	XR-P260/ MYXK/EA	XR-P260/ MYXK/EB	XR-P260/ MYIXK	XR-P260/ NVXK	
NSP	MAIN ASSY	AWK7202	AWK7201	AWK7201	AWK7201	AWK7201	
⚠	AF ASSY	AWZ7809	AWZ7808	AWZ7808	AWZ7808	AWZ7808	
	SECONDARY ASSY	AWZ7819	AWZ7818	AWZ7818	AWZ7818	AWZ7818	
	VR ASSY	AWZ7823	AWZ7822	AWZ7822	AWZ7822	AWZ7822	
NSP	COMPLEX ASSY	AWM7156	AWM7155	AWM7155	AWM7155	AWM7155	
⚠	PRIMARY ASSY	AWZ7813	AWZ7812	AWZ7812	AWZ7812	AWZ7812	
	DISPLAY ASSY	AWZ7827	AWZ7826	AWZ7826	AWZ7826	AWZ7826	
NSP	DECK SW ASSY	AWZ7831	AWZ8231	AWZ8231	AWZ8231	AWZ8231	
	PAC FAN ASSY	AWZ7834	AWZ7833	AWZ7833	AWZ7833	AWZ7833	
NSP	H. P ASSY	AWZ8401	AWZ7830	AWZ7830	AWZ7830	AWZ7830	
	FM/AM TUNER MODULE	AXQ1012	AXQ3214	AXQ3214	AXQ3214	AXQ3214	
	Packing						
	FM antenna	ADH1016	Not used	Not used	Not used	Not used	
	FM antenna assy	Not used	ADH1019	ADH1019	ADH1019	ADH1019	
	Front pad	AHA7084	AHA7092	AHA7092	AHA7092	AHA7092	
	Rear pad	AHA7085	AHA7093	AHA7093	AHA7093	AHA7093	
	Packing case	AHD7226	AHD7222	AHD7222	AHD7222	AHD7210	
	Poly bag	Z21-038	AHG1091	AHG1091	AHG1091	AHG1091	
	Sheet	AHG7003	AHG7001	AHG7001	AHG7001	AHG7001	
	Operating instructions (English/Spanish/Chinese)	ARE7054	Not used	Not used	Not used	Not used	
	Operating instructions (French/Dutch)	Not used	ARC7078	Not used	Not used	Not used	
	Operating instructions (German/Italian)	Not used	ARC7080	Not used	ARC7080	Not used	
	Operating instructions (English)	Not used	Not used	ARB7053	Not used	ARB7053	
	Operating instructions (French/Swedish/Spanish/Portuguese)	Not used	Not used	ARC7076	Not used	Not used	
	Loop antenna assy	ATB7004	ATB7002	ATB7002	ATB7002	ATB7002	
NSP	Battery (R03, AAA)	VEM-022	PEM1004	PEM1004	PEM1004	PEM1004	
	Spacer	Not used	Not used	Not used	Not used	AHB7010	

Mark	Symbol & Description	Part No.					Remarks
		XR-P360/ DD	XR-P260/ MYXK/EA	XR-P260/ MYXK/EB	XR-P260/ MYIXK	XR-P260/ NVXK	
	Exterior (1/3)						
	FL plate	AAK7191	AAK7193	AAK7193	AAK7193	AAK7193	
	Door spring L	ABH7069	ABH7078	ABH7078	ABH7078	ABH7078	
	Door spring R	ABH7070	ABH7079	ABH7079	ABH7079	ABH7079	
	Bonnet	AZN7311	AZN7315	AZN7315	AZN7315	AZN7315	
	CD holder	ANG7049	ANG7057	ANG7057	ANG7057	ANG7057	
	Cassette door L	AZN7309	AZN7317	AZN7317	AZN7317	AZN7317	
	Cassette door R	AZN7310	AZN7318	AZN7318	AZN7318	AZN7318	
	Exterior (2/3)						
⚠	Voltage selector	AKX7002	Not used	Not used	Not used	Not used	
⚠	Power transformer (T1) (AC110–127V/220–230V/240V)	ATS7076	Not used	Not used	Not used	Not used	
⚠	Power transformer (T1) (AC220–230V)	Not used	ATS7075	ATS7075	ATS7075	ATS7075	
⚠	FU2, FU3 Fuse (T1.25A)	REK–101	Not used	Not used	Not used	Not used	
⚠	FU1 Fuse (T1.25A)	Not used	REK–101	REK–101	REK–101	REK–101	
⚠	AC power cord	PDG1013	ADG1138	ADG1138	ADG1138	ADG1148	*1
⚠	Fuse (T5A/250V)	Not used	Not used	Not used	Not used	AEK1046	*1
	Mold A	AMR2594	AMR7005	AMR7005	AMR7005	AMR7005	
NSP	Chassis	ANA7031	ANA7032	ANA7032	ANA7032	ANA7032	
	Rear panel	ANC7283	ANC7273	ANC7273	ANC7273	ANC7271	
	Power pac holder	ANG7051	ANG7063	ANG7063	ANG7063	ANG7063	
	Power heat sink	ANH7024	ANH7027	ANH7027	ANH7027	ANH7027	
	Heat sink	ANH7025	ANH7030	ANH7030	ANH7030	ANH7030	
	Ceramic capacitor	Not used	CKDYB102K50	CKDYB102K50	CKDYB102K50	CKDYB102K50	*1
	Screw	Not used	ABA–115	ABA–115	ABA–115	ABA–115	*1
	Caution label (F)	Not used	ARW1046	ARW1046	ARW1046	ARW1046	*2
	Caution label	Not used	ARW1047	ARW1047	ARW1047	ARW1050	*2
	Caution label (G)	Not used	VRW–329	VRW–329	VRW–329	VRW–329	*2
	Exterior (3/3)						
	Eject spring (L)	RBH1411	ABH7028	ABH7028	ABH7028	ABH7028	
	Eject spring (R)	RBH1412	ABH7029	ABH7029	ABH7029	ABH7029	
	Connector assy 5P	RKP1582	ADX7045	ADX7045	ADX7045	ADX7045	
	Connector assy 3P	RKP1583	ADX7046	ADX7046	ADX7046	ADX7046	
	Eject arm L	AMR7020	AMR7024	AMR7024	AMR7024	AMR7024	
	Eject arm R	AMR7021	AMR7025	AMR7025	AMR7025	AMR7025	
	Mecha shield	ANG7052	ANG7054	ANG7054	ANG7054	ANG7054	
	Front panel	AZN7308	AZN7316	AZN7316	AZN7316	AZN7316	

Notes)
**1: Refer to " ● Exploded View ".*
**2: Refer to Page 2.*

■ FOR XR-P360/MYXK/EA, MYXK/EB, MYIXK AND NVXK

XR-P360/MYXK/EA, MYXK/EB, MYIXK, NVXK and XR-P360/DD have the same construction except for the following:

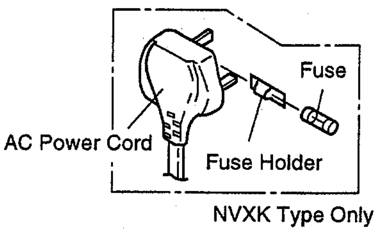
Mark	Symbol & Description	Part No.					Remarks
		XR-P360/ DD	XR-P360/ MYXK/EA	XR-P360/ MYXK/EB	XR-P360/ MYIXK	XR-P360/ NVXK	
NSP	MAIN ASSY	AWK7202	AWK7205	AWK7205	AWK7205	AWK7205	
⚠	AF ASSY	AWZ7809	AWZ7810	AWZ7810	AWZ7810	AWZ7810	
	SECONDARY ASSY	AWZ7819	AWZ7820	AWZ7820	AWZ7820	AWZ7820	
	VR ASSY	AWZ7823	AWZ7824	AWZ7824	AWZ7824	AWZ7824	
NSP	COMPLEX ASSY	AWM7156	AWM7157	AWM7157	AWM7157	AWM7157	
⚠	PRIMARY ASSY	AWZ7813	AWZ7816	AWZ7816	AWZ7816	AWZ7816	
	DISPLAY ASSY	AWZ7827	AWZ7828	AWZ7828	AWZ7828	AWZ7828	
NSP	DECK SW ASSY	AWZ7831	AWZ8231	AWZ8231	AWZ8231	AWZ8231	
	PAC FAN ASSY	AWZ7834	AWZ7833	AWZ7833	AWZ7833	AWZ7833	
NSP	H. P ASSY	AWZ8401	AWZ7830	AWZ7830	AWZ7830	AWZ7830	
	FM/AM TUNER MODULE	AXQ1012	AXQ7014	AXQ7014	AXQ7014	AXQ7014	
	Packing						
	FM antenna	ADH1016	Not used	Not used	Not used	Not used	
	FM antenna assy	Not used	ADH1019	ADH1019	ADH1019	ADH1019	
	Front pad	AHA7084	AHA7092	AHA7092	AHA7092	AHA7092	
	Rear pad	AHA7085	AHA7093	AHA7093	AHA7093	AHA7093	
	Packing case	AHD7226	AHD7224	AHD7224	AHD7224	AHD7211	
	Poly bag	Z21–038	AHG1091	AHG1091	AHG1091	AHG1091	
	Sheet	AHG7003	AHG7001	AHG7001	AHG7001	AHG7001	
	Operating instructions (English/Spanish/Chinese)	ARE7054	Not used	Not used	Not used	Not used	
	Operating instructions (French/Dutch)	Not used	ARC7078	Not used	Not used	Not used	
	Operating instructions RDS (French/Dutch)	Not used	ARC7079	Not used	Not used	Not used	
	Operating instructions (German/Italian)	Not used	ARC7080	Not used	ARC7080	Not used	
	Operating instructions RDS (German/Italian)	Not used	ARC7081	Not used	ARC7081	Not used	
	Operating instructions (English)	Not used	Not used	ARB7053	Not used	ARB7053	
	Operating instructions RDS (English)	Not used	Not used	ARB7054	Not used	ARB7054	
	Operating instructions (French/Swedish/Spanish/Portuguese)	Not used	Not used	ARC7076	Not used	Not used	
	Operating instructions RDS (French/Swedish/Spanish/Portuguese)	Not used	Not used	ARC7077	Not used	Not used	
	Loop antenna assy	ATB7004	ATB7002	ATB7002	ATB7002	ATB7002	
NSP	Battery (R03, AAA)	VEM–022	PEM1004	PEM1004	PEM1004	PEM1004	
	Spacer	Not used	Not used	Not used	Not used	AHB7010	
	Exterior (1/3)						
	FL plate	AAK7191	AAK7206	AAK7206	AAK7206	AAK7206	
	Door spring L	ABH7069	ABH7078	ABH7078	ABH7078	ABH7078	
	Door spring R	ABH7070	ABH7079	ABH7079	ABH7079	ABH7079	
	Bonnet	AZN7311	AZN7315	AZN7315	AZN7315	AZN7315	
	CD holder	ANG7049	ANG7057	ANG7057	ANG7057	ANG7057	
	Cassette door L	AZN7309	AZN7317	AZN7317	AZN7317	AZN7317	
	Cassette door R	AZN7310	AZN7318	AZN7318	AZN7318	AZN7318	

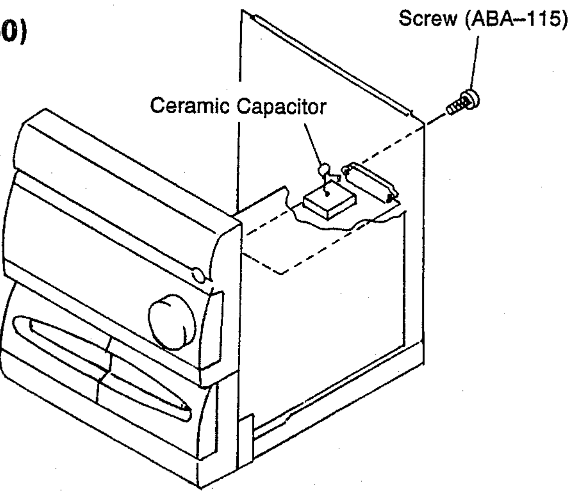
XR-P360, XR-P260

Mark	Symbol & Description	Part No.					Remarks
		XR-P360/ DD	XR-P260/ MYXK/EA	XR-P260/ MYXK/EB	XR-P260/ MYIXK	XR-P260/ NVXK	
	Exterior (2/3)						
⚠	Voltage selector	AKX7002	Not used	Not used	Not used	Not used	
⚠	Power transformer (T1) (AC110-127V/220-230V/240V)	ATS7076	Not used	Not used	Not used	Not used	
⚠	Power transformer (T1) (AC220-230V)	Not used	ATS7075	ATS7075	ATS7075	ATS7075	
⚠	FU2, FU3 Fuse (T1.25A)	REK-101	Not used	Not used	Not used	Not used	
⚠	FU1 Fuse (T1.25A)	Not used	REK-101	REK-101	REK-101	REK-101	
⚠	AC power cord	PDG1013	ADG1138	ADG1138	ADG1138	ADG1148	*1
⚠	Fuse (T5A/250V)	Not used	Not used	Not used	Not used	AEK1046	*1
	Mold A	AMR2594	AMR7005	AMR7005	AMR7005	AMR7005	
NSP	Chassis	ANA7031	ANA7032	ANA7032	ANA7032	ANA7032	
	Rear panel	ANC7283	ANC7281	ANC7281	ANC7281	ANC7279	
	Power pac holder	ANG7051	ANG7063	ANG7063	ANG7063	ANG7063	
	Power heat sink	ANH7024	ANH7027	ANH7027	ANH7027	ANH7027	
	Heat sink	ANH7025	ANH7030	ANH7030	ANH7030	ANH7030	
	Ceramic capacitor	Not used	CKDYB102K50	CKDYB102K50	CKDYB102K50	CKDYB102K50	*1
	Screw	Not used	ABA-115	ABA-115	ABA-115	ABA-115	*1
	Caution label (F)	Not used	ARW1046	ARW1046	ARW1046	ARW1046	*2
	Caution label	Not used	ARW1047	ARW1047	ARW1047	ARW1050	*2
	Caution label (G)	Not used	VRW-329	VRW-329	VRW-329	VRW-329	*2
	Exterior (3/3)						
	Eject spring (L)	RBH1411	ABH7028	ABH7028	ABH7028	ABH7028	
	Eject spring (R)	RBH1412	ABH7029	ABH7029	ABH7029	ABH7029	
	Connector assy 5P	RKP1582	ADX7045	ADX7045	ADX7045	ADX7045	
	Connector assy 3P	RKP1583	ADX7046	ADX7046	ADX7046	ADX7046	
	Eject arm L	AMR7020	AMR7024	AMR7024	AMR7024	AMR7024	
	Eject arm R	AMR7021	AMR7025	AMR7025	AMR7025	AMR7025	
	Mecha shield	ANG7052	ANG7054	ANG7054	ANG7054	ANG7054	
	Front panel	AZN7308	AZN7312	AZN7312	AZN7312	AZN7312	

Notes)
**1: Refer to " ● Exploded View ".*
**2: Refer to Page 2.*

● Exploded View (for XR-P260 and XR-P360)





AF Assy

AWZ7808, AWZ7810 and AWZ7809 have the same construction except for the following:

Mark	Symbol & Description	Part No.			Remarks
		AWZ7809	AWZ7808	AWZ7810	
	IC3501	Not used	Not used	LA2232M	*
	Q1181	DTC143ES	Not used	Not used	
	Q3501	Not used	Not used	2SA1048	*
	Q3502	Not used	Not used	DTC143ES	*
	Q3503	Not used	Not used	2SC2458	*
	L1161	Not used	LAU100J	LAU100J	*
	L1303, L1304	Not used	ATH–133	ATH–133	*
	C1009 (0.01μF/150V)	Not used	ACG1005	ACG1005	*
	C1305, C1306	Not used	CQMXA103J100	CQMXA103J100	*
	C1307–C1310	Not used	CKSQYF104Z50	CKSQYF104Z50	*
	C1331, C1332	Not used	CCSQSL102J50	CCSQSL102J50	*
	C2103, C2104	Not used	CCSQSL221J50	CCSQSL221J50	*
	C3501, C3507	Not used	Not used	CKSQYF103Z50	*
	C3503	Not used	Not used	CEAS4R7M50	*
	C3504	Not used	Not used	CEAS220M50	*
	C3505, C3506	Not used	Not used	CKSQYB332K50	*
	C3508	Not used	Not used	CCSQCH271J50	*
	C3509, C3511	Not used	Not used	CEAS100M50	*
	C3510, C3512	Not used	Not used	CEAS4R7M50	*
	C3513	Not used	Not used	CKSQYF223Z50	*
	C3514, C3515	Not used	Not used	CKSQYF332Z50	*
	C3516	Not used	Not used	CKSQYB682K50	*
	C8101, C8301	CEAS221M16	CEAS330M16	CEAS330M16	
	C8608	CEAS471M10	Not used	Not used	
	VR3501 (4.7kΩ)	Not used	Not used	PCP1028	*
	R1103, R1109, R1171, R3507, R3509, R3551	Not used	Not used	RS1/10S102J	*
	R1112	Not used	Not used	RS1/10S563J	*
	R1144	RS1/10S000J	Not used	Not used	
	R1181	RS1/10S102J	Not used	Not used	
	R1305, R1306	Not used	RS1/10S100J	RS1/10S100J	*
	R1307, R1308	RD1/4PMFL100J	RD1/4PMFL101J	RD1/4PMFL101J	
	R3501	Not used	Not used	RS1/10S473J	*
	R3502	Not used	Not used	RD1/6PM102J	*
	R3504	Not used	Not used	RS1/10S101J	*
	R3505	Not used	Not used	RS1/10S221J	*
	R3506	Not used	Not used	RS1/10S472J	*
	R3508	Not used	Not used	RD1/6PM564J	*
	R3510	Not used	Not used	RS1/10S562J	*
	R3511	Not used	Not used	RS1/10S332J	*
	R3512	Not used	Not used	RS1/10S103J	*
	R3513	Not used	Not used	RS1/10S223J	*
	R3514	Not used	Not used	RS1/10S104J	*
	R3520	Not used	Not used	RD1/6PM563J	*
	X3501 (456kHz)	Not used	Not used	ASS7001	*
	CN101	AKE7017	AKE7018	AKE7018	
	Buzzer	APV7001	Not used	Not used	

*Note *: Refer to SCH- 1F.*

SECONDARY Assy

AWZ7818, AWZ7820 and AWZ7819 have the same construction except for the following:

Mark	Symbol & Description	Part No.			Remarks
		AWZ7819	AWZ7818	AWZ7820	
	C1003	CEAS102M25	Not used	Not used	
	C1005	Not used	CEAS102M25	CEAS102M25	*

*Note *: Refer to SCH- 1F.*

VR Assy

AWZ7822, AWZ7824 and AWZ7823 have the same construction except for the following:

Mark	Symbol & Description	Part No.			Remarks
		AWZ7823	AWZ7822	AWZ7824	
	C1501–C1504	CEAS2R2M50	CEAS4R7M50	CEAS4R7M50	
	C1505, C1506, C1509, C1510	Not used	CCSQSL470J50	CCSQSL470J50	*
	C1511, C1512	CEZA220M50	CEAS010M50	CEAS010M50	
	C1513, C1514	CKSQYB473K50	CKSQYB683K25	CKSQYB683K25	
	C1515, C1516	CKSQYB393K50	CKSQYB473K50	CKSQYB473K50	
	R1509, R1510, R1515, R1516	RS1/10S563J	RS1/10S683J	RS1/10S683J	

*Note *: Refer to SCH- 1F.*

PRIMARY Assy

AWZ7812, AWZ7816 and AWZ7813 have the same construction except for the following:

Mark	Symbol & Description	Part No.			Remarks
		AWZ7813	AWZ7812	AWZ7816	
	L101	Not used	ATF-151	ATF-151	*
⚠	C102 (0.01μF/250V)	Not used	ACG7005	ACG7005	*
⚠	H1101–H1104	AKR1003	Not used	Not used	
⚠	H1105, H1106	Not used	AKR1003	AKR1003	*

*Note *: Refer to SCH- 1F.*

DISPLAY Assy

AWZ7826, AWZ7828 and AWZ7827 have the same construction except for the following:

Mark	Symbol & Description	Part No.			Remarks
		AWZ7827	AWZ7826	AWZ7828	
	D1722, D1724, D1726, D1728	GL1HS21	GL1EG21	GL1EG21	
	D1800	1SS254	Not used	1SS254	
	D1812	1SS254	Not used	Not used	
	D1810	Not used	Not used	1SS254	*
	D1817	1SS254	Jumper	Jumper	
	D1819	Jumper	Jumper	1SS254	*
	S1811–S1832	ASG1051	ASG1029	ASG1029	
	C2551	Not used	CCSQCH221J50	CCSQCH221J50	*
	R2501	RS1/10S221J	RS1/10S102J	RS1/10S102J	

*Note *: Refer to SCH- 2F.*

DECK SW Assy

AWZ8231 and AWZ7831 have the same construction except for the following:

Mark	Symbol & Description	Part No.		Remarks
		AWZ7831	AWZ8231	
	S1801–S1810	ASG1051	ASG1029	

PAC FAN Assy

AWZ7833 and AWZ7834 have the same construction except for the following:

Mark	Symbol & Description	Part No.		Remarks
		AWZ7834	AWZ7833	
	C1203, C1204	CKSQYB391K50	CCSQSL152J50	
	C2403, C2404	CEASR22M50	CEAS0R1M50	
	R1215	RD1/2LMF102J	RD1/2PMFL102J	
	R1221, R1222	RS1/10S000J	RS1/10S102J	

H. P. Assy

AWZ7830 and AWZ8401 have the same construction except for the following:

Mark	Symbol & Description	Part No.		Remarks
		AWZ8401	AWZ7830	
	L2201	Not used	LFA100J	*
	C2201, C2202	Not used	CCSQCH221J50	*

*Note *: Refer to SCH- 1F.*

FM/AM TUNER MODULE (AXQ7014)

AXQ7014 and AXQ3214 have the same construction except for the following:

Mark	Symbol & Description	Part No.		Remarks
		AXQ3214	AXQ7014	
	R6274, R6277	Not used	RS1/10S000J	*

Notes)
**: Refer to SCH–3F.*
For AXQ3214, refer to SCH-3F and page 10.

● PCB Parts List

FM/AM TUNER MODULE (AXQ3214)

SEMICONDUCTORS

Mark	No.	Description	Parts No.
	IC6201		LA1836M
	IC6202		LM7001J
	Q6102		2SC2223
	Q6203		2SC2235
	Q6202, Q6218		2SC2712
	Q6103, Q6214		2SC2714
	Q6201		2SK208
	Q6104, Q6105		2SK302
	Q6101		3SK194
	Q6204		XDA124EK
	Q6217		XDC124EK
	D6101–D6104		1SV228

COILS AND FILTERS

Mark	No.	Description	Parts No.
	L6106		ATC1003
	L6105		ATC1015
	L6101		ATC1016
	L6102		ATC1017
	L6103		ATC1018
	L6104		ATC1019
	L6207 (10.7MHz)		ATE1013
	F6204		ATF–107
	F6203		ATF–119
	F6205		ATF1152
	F6202 (450kHz)		ATF1155
	L6107 (2.2μH)		ATH1043
	L6202, L6203, L6208		LCTA2R2J3225
	L6205		LCTA680J3225

TRANSFORMERS

Mark	No.	Description	Parts No.
	T6101		ATE–063

CAPACITORS

Mark	No.	Description	Parts No.
	C6204, C6234, C6236, C6269 (1μF/16V)		ACG1051
	C6120		CCSCH060D50
	C6229		CCSCH102J50
	C6111, C6122		CCSQCH010C50
	C6112		CCSQCH020C50
	C6118		CCSQCH080D50
	C6113		CCSQCH101J50
	C6116, C6208, C6221, C6222		CCSQCH150J50
	C6117		CCSQCH330J50
	C6272		CCSQSL330J50
	C6105		CCSQSL471J50
	C6101		CCSQTH110J50
	C6119		CCSQTH150J50
	C6109		CCSQTH270J50
	C6107, C6110		CCSQTH300J50
	C6106		CCSQTH330J50
	C6261		CEAS010M50
	C6224, C6231, C6233, C6246, C6262		CEAS100M50
	C6227		CEAS101M10
	C6216, C6217		CEAS330M16
	C6219		CEAS470M10
	C6243–C6245		CEAS470M16
	C6238, C6248		CEJA100M16
	C6249, C6250		CEJA4R7M35
	C6215		CFTXA103J50
	C6214		CFTXA224J50
	C6115, C6125, C6126, C6207		CKSQYB102K50
	C6102, C6114, C6121, C6124, C6210		CKSQYB103K50
	C6264		CKSQYB103K50
	C6247		CKSQYB122K50
	C6213		CKSQYB223K50
	C6230		CKSQYB273K50
	C6228		CKSQYB472K50
	C6209, C6237, C6267		CKSQYB473K50
	C6251, C6252		CKSQYB562K50
	C6212, C6218		CKSQYF103Z50
	C6220, C6226, C6239, C6242		CKSQYF223Z50
	C6255, C6256		CKSQYF223Z50
	C6235		CKSQYF224Z25
	C6225, C6241		CKSQYF473Z50
	C6123		CKSYB103K50
	C6232		CKSYB273K50
	C6223		CKSYF103Z50
	C6263		CKSYF473Z50

RESISTORS

Mark	No.	Description	Parts No.
	VR6201 (10kΩ)		ACP1056
	VR6202		VRTB6VS223
	R6299, R6300		RD1/6PM102J
	R6115, R6119, R6123, R6127, R6129		RS1/8S000J
	R6268–R6271, R6275, R6276, R6278		RS1/8S000J
	R6283, R6284, R6293, R6294, R6297		RS1/8S000J
	R6302, R6303		RS1/8S000J
	R6243, R6244		RS1/8S101J
	R6211, R6239		RS1/8S103J
	R6237		RS1/8S122J
	R6209		RS1/8S221J
	R6112		RS1/8S473J
	Other Resistors		RS1/10S☐☐☐J

OTHERS

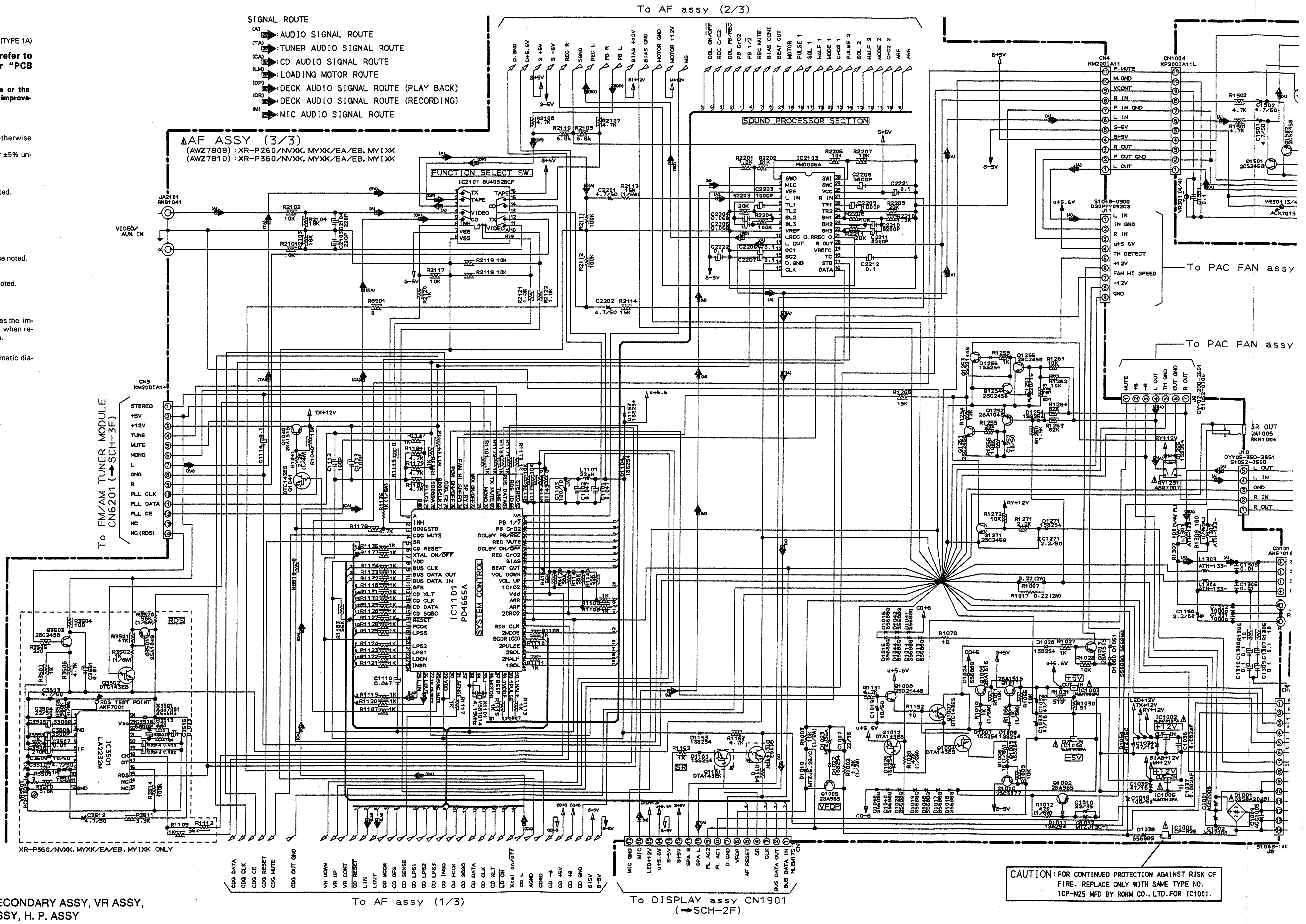
Mark	No.	Description	Parts No.
	BN6201	2P TERMINAL WITH PAL	AKA1017
	CN6201	14P SOCKET	KP200IA14L
	X6203 (7.200MHz)		ASS1042
	X6201 (456kHz)		ASS1066
	X6202 (450kHz)		ATF1027
		AM RF TUNING BLOCK	AXX7005

3. SCHEMATIC AND PCB DIAGRAMS

3.1 AF ASSY, SECONDARY ASSY, VR ASSY, PRIMARY ASSY AND H. P. ASSY

NOTE FOR SCHEMATIC DIAGRAMS (TYPE 1A)

1. **When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".**
2. **Since these are basic circuits, some parts of them or the values of some components may be changed for improvement.**
3. **RESISTORS:**
   Unit: k:kΩ, M:MΩ, or Ω unless otherwise noted.
   Rated power: 1/4W, 1/6W, 1/8, 1/10W unless otherwise noted.
   Tolerance: (F): ±1%, (G): ±2%, (K): ±10%, (M): ±20% or ±5% unless otherwise noted.
4. **CAPACITORS:**
   Unit: p:pF or µF unless otherwise noted.
   Ratings: capacitor (µF) / voltage (V) unless otherwise noted.
   Rated voltage: 50V except for electolytic capacitors.
5. **COILS:**
   Unit: m:mH or µH unless otherwise noted.
6. **VOLTAGE AND CURRENT:**
   ▭V : SIGNAL voltage at rated output.
   ▭ or ← V :
   DC voltage (V) at no input signal unless otherwise noted.
   Value in ( ) is DC voltage at rated power.
   ⇦ mA or ← mA :
   DC current at no input signal unless otherwise noted.
7. **OTHERS:**
   - ⊘ or ● : Adjusting point.
   - ◀ : Measurement point.
   - The ⚠ mark found on some components parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.
8. **SCH-□ ON THE SCHEMATIC DIAGRAM:**
   - SCH-□ indicates the drawing number of the schematic diagram. (SCH stands for schematic diagram.)
9. **SWITCHES** (Underline indicates switch position):

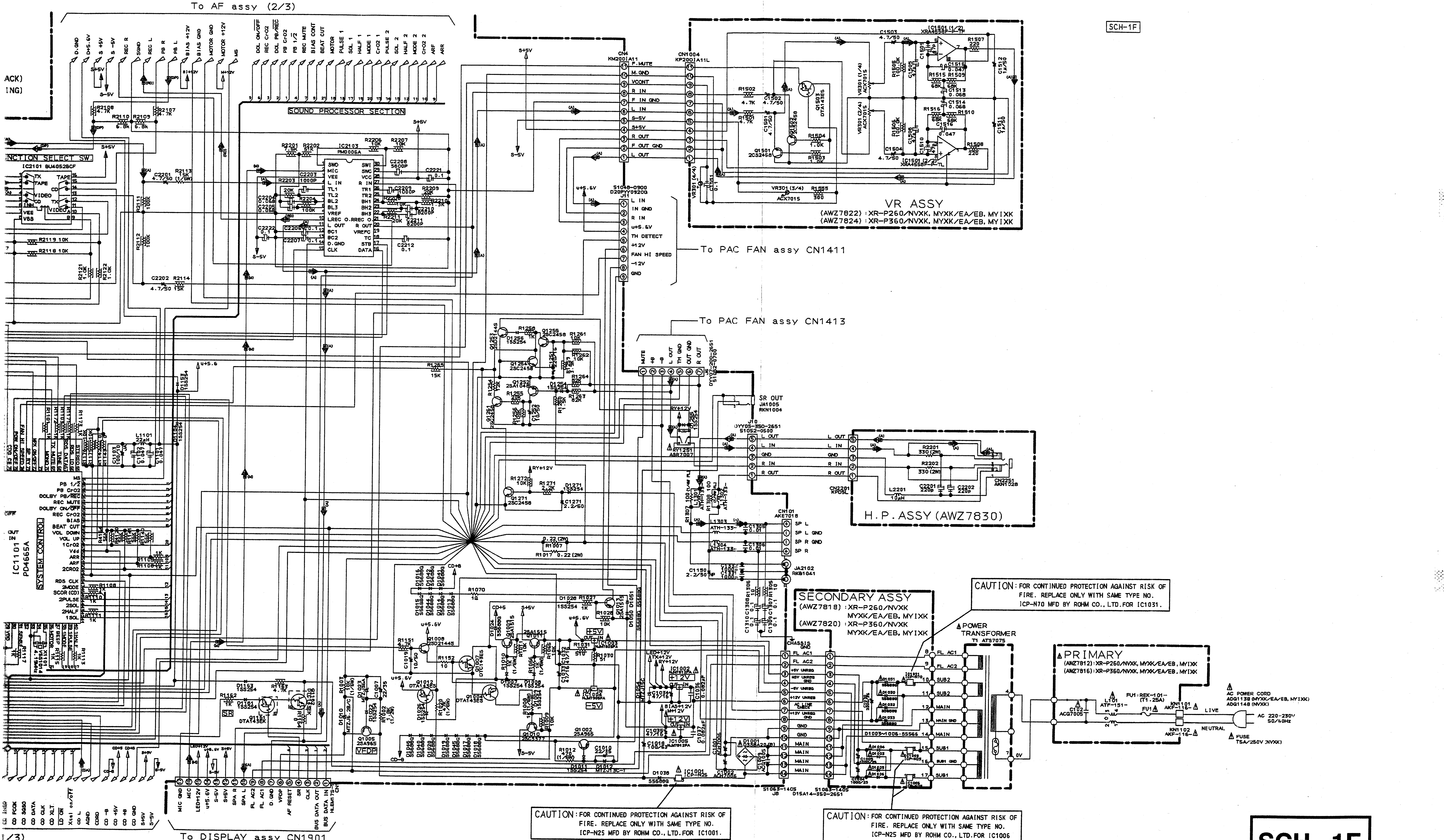

SIGNAL ROUTE
(A) : AUDIO SIGNAL ROUTE
(TA) : TUNER AUDIO SIGNAL ROUTE
(CA) : CD AUDIO SIGNAL ROUTE
(LM) : LOADING MOTOR ROUTE
(DP) : DECK AUDIO SIGNAL ROUTE (PLAY BACK)
(DR) : DECK AUDIO SIGNAL ROUTE (RECORDING)
(M) : MIC AUDIO SIGNAL ROUTE

⚠AF ASSY (3/3)
(AWZ7808) :XR-P260/NVXK, MYXK/EA/EB, MYIXK
(AWZ7810) :XR-P360/NVXK, MYXK/EA/EB, MYIXK
To AF assy (2/3)
D.GND
D+5.6V
S +5V
S -5V
REC R
SGND
REC L
PB R
PB L
BIAS +12V
BIAS GND
MOTOR GND
MOTOR +12V
MS
DOL ON/OFF
REC CrO2
DOL PB/REC
PB CrO2
PB 1/2
REC MUTE
BIAS CONT
BEAT CUT
MOTOR
PULSE 1
SOL 1
HALF 1
MODE 1
CrO2 1
PULSE 2
SOL 2
HALF 2
MODE 2
CrO2 2
ARF
ARR
SOUND PROCESSOR SECTION
IC2103
PM0006A
FUNCTION SELECT SW.
IC2101 BU4052BCF
JA2101
RKB1041
VIDEO/
AUX IN
CN5
KM200IA14
To FM/AM TUNER MODULE
CN6201 (→SCH-3F)
STEREO
+5V
+12V
TUNE
MUTE
MONO
L
GND
R
PLL CLK
PLL DATA
PLL CE
NC
NC (RDS)
IC1101
PD4665A
SYSTEM CONTROL
RDS
IC3501
LA2232M
RDS TEST POINT
XR-P560/NVXK, MYXK/EA/EB, MYIXK ONLY
CN4
KM200IA11
F.MUTE
M.GND
VCCNT
R IN
F IN GND
L IN
S-5V
S+5V
R OUT
F OUT GND
L OUT
CN1004
KP200IA11L
51048-0900
D20PYY0920G
J11
L IN
IN GND
R IN
u+5.6V
TH DETECT
+12V
FAN HI SPEED
-12V
GND
To PAC FAN assy
To PAC FAN assy
SR OUT
JA1005
RKN1004
J10
L OUT
L IN
GND
R IN
R OUT
CN1101
AKE7015
VFDP
IC1001
ICP-N25
To AF assy (1/3)
CDG DATA
CDG CLK
CDG CE
CDG RESET
CDG MUTE
CDG OUT GND
VR DOWN
VR UP
VR CONT
CD RESET
LIN
LOUT
CD SCOR
CD GFS
CD SENSE
CD LPS1
CD LPS2
CD LPS3
CD INSD
CD FCOK
CD SQSO
CD DATA
CD CLK
CD XLT
LD ON
Xtal on/off
CD L
AGND
CDRD
CD -B
CD +5V
CD +B
CD GND
S+5V
S-5V
To DISPLAY assy CN1901
(→SCH-2F)
MIC GND
MIC
LED+12V
u+5.6V
S-5V
S+5V
SPA R
SPA L
FL AC2
FL AC1
D.GND
VFDP
AF RESET
SR
CLK
BUS DATA OUT
BUS DATA IN

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. ICP-N25 MFD BY ROHM CO., LTD. FOR IC1001.

SCH-1F AF ASSY, SECONDARY ASSY, VR ASSY, PRIMARY ASSY, H. P. ASSY

ASSY

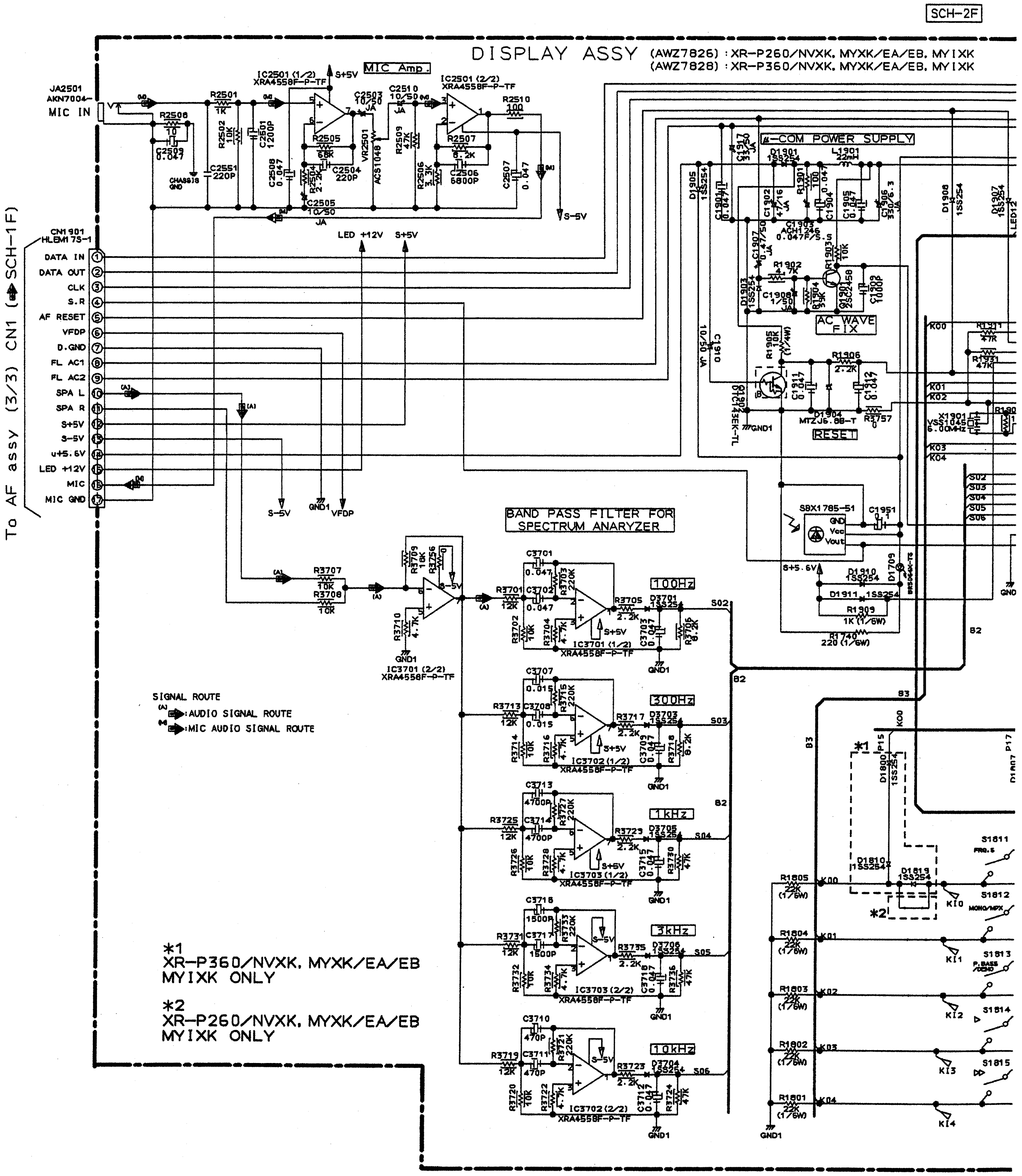

SCH-1F
To AF assy (2/3)
SOUND PROCESSOR SECTION
IC2103 PM0006A
FUNCTION SELECT SW
IC2101 BU4052BCF
SYSTEM CONTROL
IC1101 PD4565A
CN4 KM200IA11
CN1004 KP200IA11L
To PAC FAN assy CN1411
To PAC FAN assy CN1413
VR ASSY
(AWZ7822) : XR-P260/NVXK, MYXK/EA/EB, MYIXK
(AWZ7824) : XR-P360/NVXK, MYXK/EA/EB, MYIXK
IC1501 XRA4558F-P-TL
SR OUT JA1005 RKN1004
H. P. ASSY (AWZ7830)
CN2251 AKN1028
SECONDARY ASSY
(AWZ7818) : XR-P260/NVXK MYXK/EA/EB, MYIXK
(AWZ7820) : XR-P360/NVXK MYXK/EA/EB, MYIXK
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. ICP-N70 MFD BY ROHM CO., LTD. FOR IC1031.
POWER TRANSFORMER T1 ATS7075
PRIMARY
(AWZ7812) : XR-P260/NVXK, MYXK/EA/EB, MYIXK
(AWZ7816) : XR-P360/NVXK, MYXK/EA/EB, MYIXK
FU1 : REK-101- (T1.25A)
AC POWER CORD ADG1138 (MYXK/EA/EB, MYIXK) ADG1148 (NVXK)
LIVE
NEUTRAL
AC 220-230V 50/60Hz
FUSE T5A/250V (NVXK)
CN1101 AKE7018
SP L
SP L GND
SP R GND
SP R
JA2102 RKB1041
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. ICP-N25 MFD BY ROHM CO., LTD. FOR IC1001.
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. ICP-N25 MFD BY ROHM CO., LTD. FOR IC1006 AND IC1008.
To DISPLAY assy CN1901
(→SCH-2F)

AF ASSY, SECONDARY ASSY, VR ASSY, PRIMARY ASSY, H. P. ASSY

SCH-1F

3.2 DISPLAY ASSY

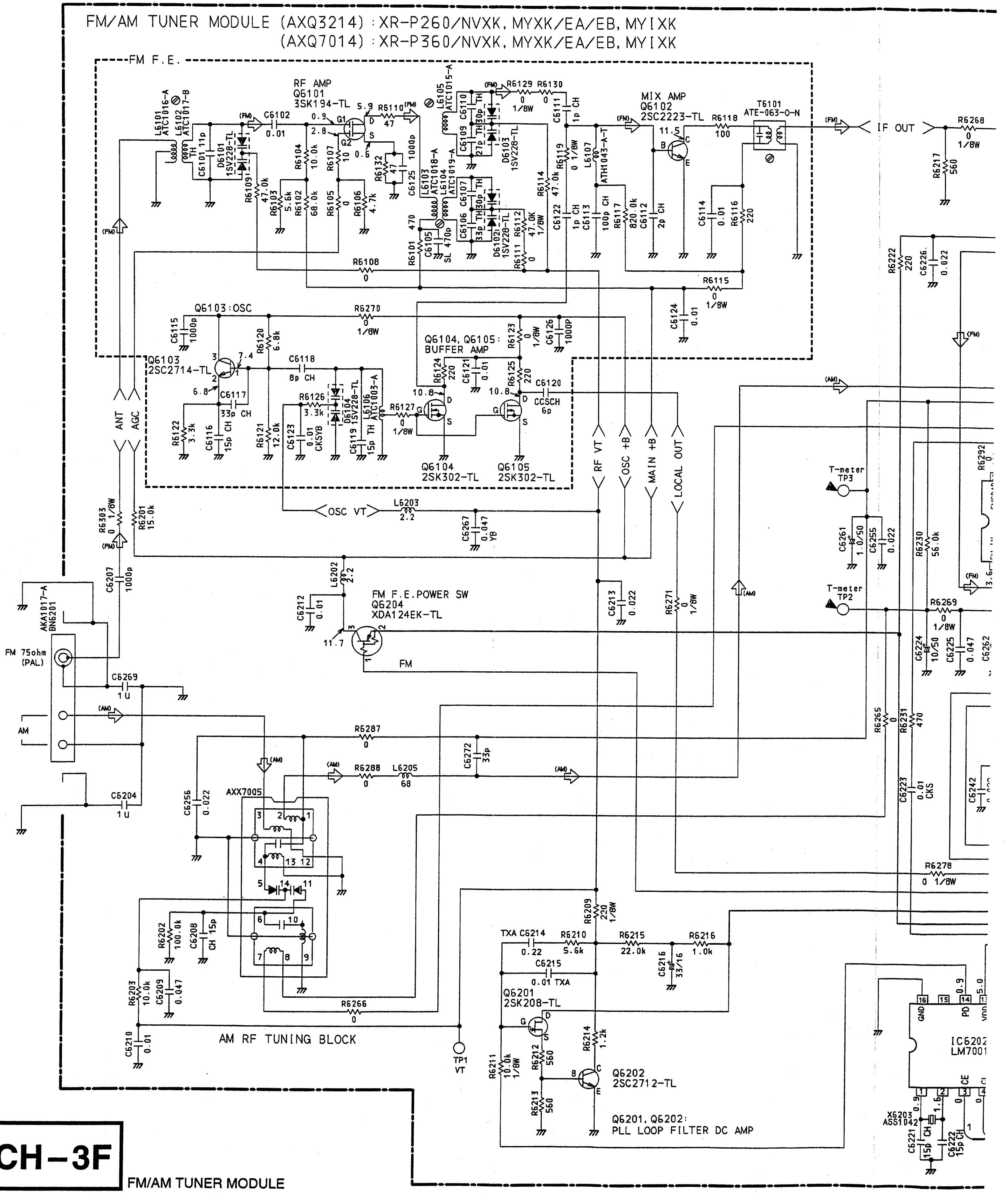
Note: For DISPLAY assy, only the differences between AWZ7826, AWZ7827 and AWZ7827 are shown.


SCH-2F
DISPLAY ASSY (AWZ7826) : XR-P260/NVXK, MYXK/EA/EB, MYIXK
(AWZ7828) : XR-P360/NVXK, MYXK/EA/EB, MYIXK
JA2501 AKN7004- MIC IN
IC2501 (1/2) XRA4558F-P-TF
MIC Amp.
IC2501 (2/2) XRA4558F-P-TF
μ-COM POWER SUPPLY
AC WAVE FIX
RESET
To AF assy (3/3) CN1 (SCH-1F)
CN1901 HLEM175-1
DATA IN
DATA OUT
CLK
S.R
AF RESET
VFDP
D.GND
FL AC1
FL AC2
SPA L
SPA R
S+5V
S-5V
u+5.6V
LED +12V
MIC
MIC GND
LED +12V
S+5V
S-5V
GND1
VFDP
BAND PASS FILTER FOR SPECTRUM ANARYZER
100Hz
300Hz
1kHz
3kHz
10kHz
IC3701 (2/2) XRA4558F-P-TF
SIGNAL ROUTE
(A): AUDIO SIGNAL ROUTE
: MIC AUDIO SIGNAL ROUTE
SBX1785-51
*1
XR-P360/NVXK, MYXK/EA/EB MYIXK ONLY
*2
XR-P260/NVXK, MYXK/EA/EB MYIXK ONLY
S1811
S1812
S1813
S1814
S1815

SCH-2F

DISPLAY ASSY

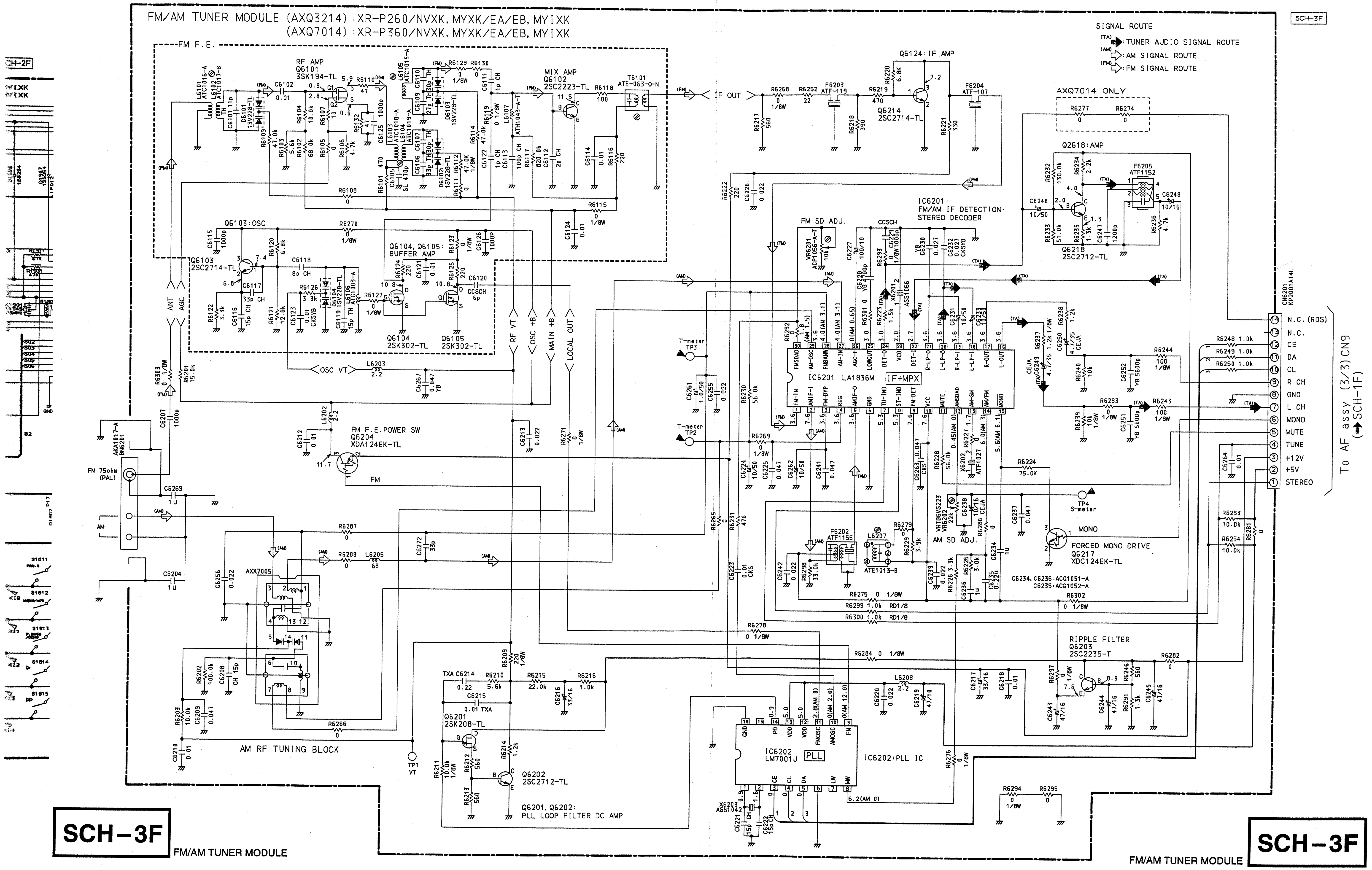
3.3 FM/AM TUNER MODULE


FM/AM TUNER MODULE (AXQ3214) : XR-P260/NVXK, MYXK/EA/EB, MYIXK
(AXQ7014) : XR-P360/NVXK, MYXK/EA/EB, MYIXK
FM F.E.
RF AMP Q6101 3SK194-TL
MIX AMP Q6102 2SC2223-TL
T6101 ATE-063-0-N
IF OUT
Q6103:OSC
Q6103 2SC2714-TL
Q6104, Q6105: BUFFER AMP
Q6104 2SK302-TL
Q6105 2SK302-TL
ANT
AGC
RF VT
OSC +B
MAIN +B
LOCAL OUT
OSC VT
FM F.E. POWER SW Q6204 XDA124EK-TL
FM
AKA1017-A DN6201
FM 75ohm (PAL)
AM
AXX7005
AM RF TUNING BLOCK
TP1 VT
Q6201 2SK208-TL
Q6202 2SC2712-TL
Q6201, Q6202: PLL LOOP FILTER DC AMP
T-meter TP3
T-meter TP2
IC6202 LM7001
X6203 ASS1042

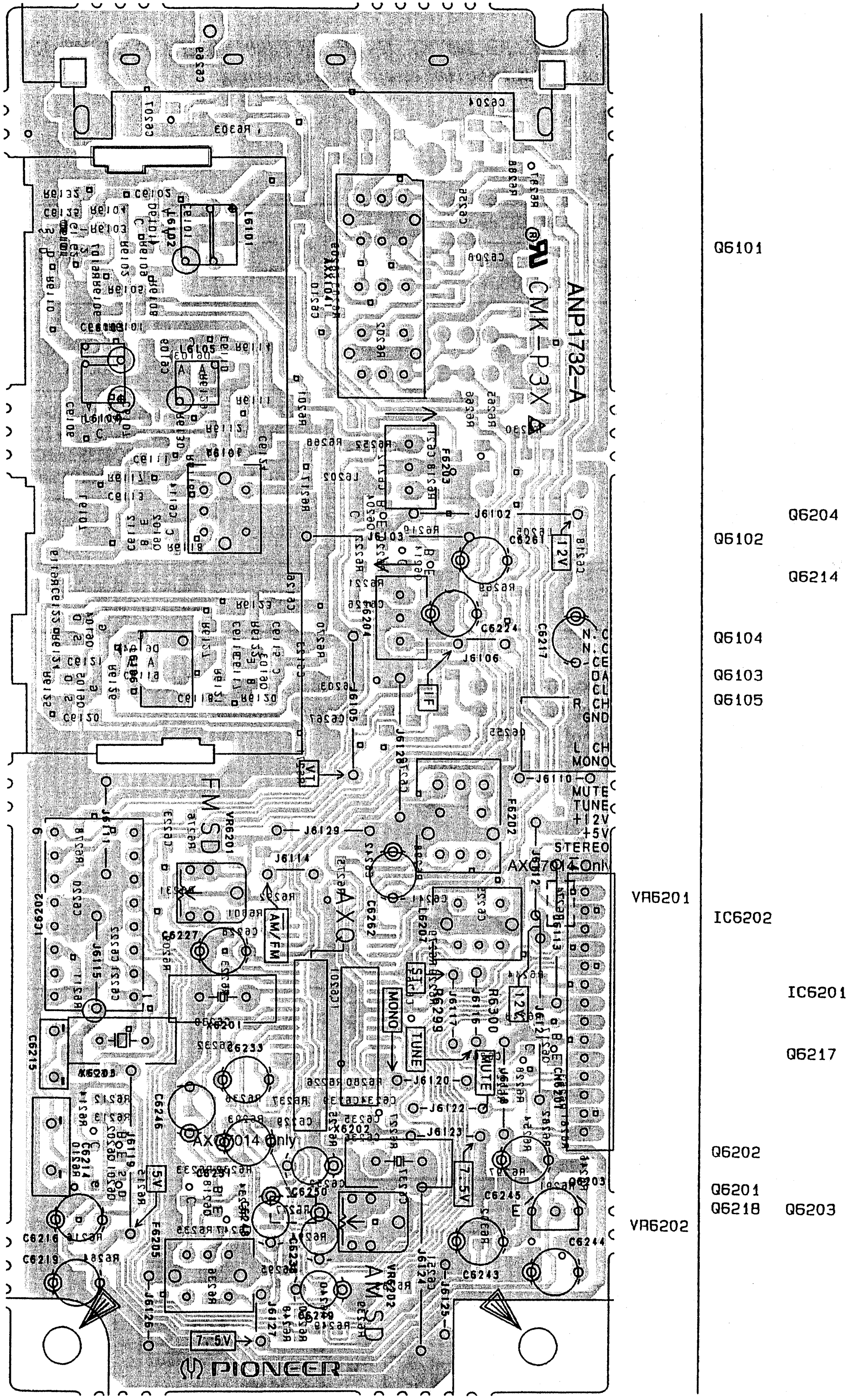
SCH-3F

FM/AM TUNER MODULE

3.3 FM/AM TUNER MODULE


FM/AM TUNER MODULE (AXQ3214) : XR-P260/NVXK, MYXK/EA/EB, MYIXK
(AXQ7014) : XR-P360/NVXK, MYXK/EA/EB, MYIXK
SCH-3F
SIGNAL ROUTE
(TA) : TUNER AUDIO SIGNAL ROUTE
(AM) : AM SIGNAL ROUTE
(FM) : FM SIGNAL ROUTE
FM F.E.
RF AMP Q6101 3SK194-TL
MIX AMP Q6102 2SC2223-TL
T6101 ATE-063-0-N
Q6103 : OSC
Q6103 2SC2714-TL
Q6104, Q6105: BUFFER AMP
Q6104 2SK302-TL
Q6105 2SK302-TL
IF OUT
Q6124 : IF AMP
Q6214 2SC2714-TL
F6203 ATF-119
F6204 ATF-107
AXQ7014 ONLY
Q2618 : AMP
Q6218 2SC2712-TL
F6205 ATF1152
IC6201 : FM/AM IF DETECTION STEREO DECODER
IC6201 LA1836M
IF+MPX
FM SD ADJ.
AM SD ADJ.
T-meter TP3
T-meter TP2
TP4 S-meter
FM F.E. POWER SW Q6204 XDA124EK-TL
ANT
AGC
RF VT
OSC +B
MAIN +B
LOCAL OUT
OSC VT
FM 75ohm (PAL)
AK41017-A BN6201
AM
AXX7005
AM RF TUNING BLOCK
TP1 VT
Q6201 2SK208-TL
Q6202 2SC2712-TL
Q6201, Q6202: PLL LOOP FILTER DC AMP
IC6202 LM7001J
PLL
IC6202 : PLL IC
X6203 ASG1042
FORCED MONO DRIVE Q6217 XDC124EK-TL
MONO
C6234, C6236 : ACG1051-A
C6235 : ACG1052-A
RIPPLE FILTER Q6203 2SC2235-T
CN6201 KP201A14L
N.C. (RDS)
N.C.
CE
DA
CL
R CH
GND
L CH
MONO
MUTE
TUNE
+12V
+5V
STEREO
To AF assy (3/3) CN9 (→SCH-1F)

FM/AM TUNER MODULE (AXQ3214: XR-P260)
(AXQ7014: XR-P360)


ANP1732-A
CMK-P3X
12V
IF
N.C
N.C
CE
DA
CL
R CH
GND
L CH
MONO
MUTE
TUNE
+12V
+5V
STEREO
AXQ7014 Only
V1
FM SD
AM/FM
AXQ
S1
MONO
TUNE
MUTE
12V
7.5V
5V
AXQ7014 Only
AM SD
7.5V
PIONEER
Q6101
Q6204
Q6102
Q6214
Q6104
Q6103
Q6105
VR6201
IC6202
IC6201
Q6217
Q6202
Q6201
Q6218
Q6203
VR6202

- This diagram is viewed from the mounted parts side.

4. ADJUSTMENTS

Adjustments of XR-P260 / MYXK / EA, MYXK / EB, MYIXK, NVXK, XR-P360 / MYXK / EA, MYXK / EB, MYIXK and NVXK are the same as those of XR-P360 / DD except for the following:

■ FM TUNER SECTION

- Set the mode selector to FM BAND.
- Connect the wiring as shown in Fig. 1–1.

Step No.	Adjustment Title	FM SG (1kHz, ±75kHz dev.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (MHz)	Level (dBμV)			
1	Center Adjustment	98	80	98 MHz	L6207	Adjust so that the DC voltage between IC6201-Pin 4 and Pin 28 (or ⊕ leads of C6224 and C6261) becomes 0V±50mV.
2	Front End Sencitivity Adjustment	106	Low input (0 to 30)	106 MHz	L6104 L6105 L6102 T6101	After adjusting L6104 and L6105 so that the DC voltage between the IC6201-Pin 12 and GND (or ⊕ leads of C6238 and GND) becomes at maximum level, adjust T6101 and L6102.
3	Stereo Distortion	98	80	98 MHz	T6101	Minimize the distortion with 1/8 rotation of the core.
4	TUNED IND. Lighting Level	98	15 (±2 dB)	98 MHz	VR6201	Adjust so that the indicator of TUNED IND. starts to light up.

Notes:

- *Before adjusting, make sure there is no gap between L6101 and L6102 and between L6103 and L6104. If there is a gap between them, bring them into contact with each other first, and then make adjustments.*
- *Make indicator adjustments in order of AM →FM.*
- *Adjustment sequence: L6104 →L6105 →L6102 →T6101*

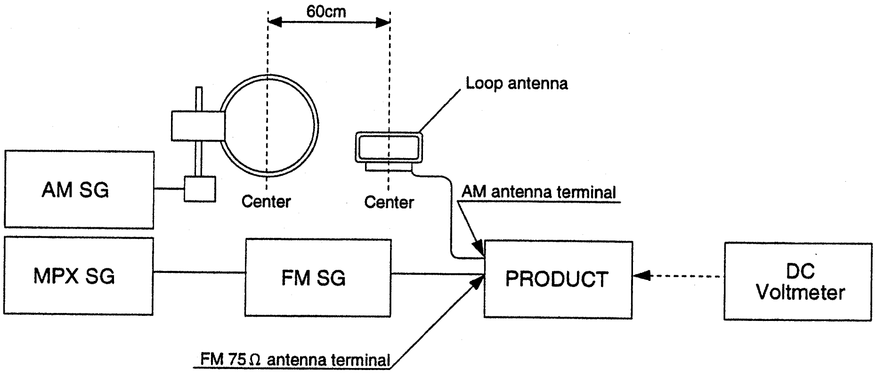

60cm
Loop antenna
AM SG
Center
Center
AM antenna terminal
MPX SG
FM SG
PRODUCT
DC Voltmeter
FM 75Ω antenna terminal

Fig. 1–1 AM and FM Adjustment Wiring Diagram

FM/AM Tuner Module

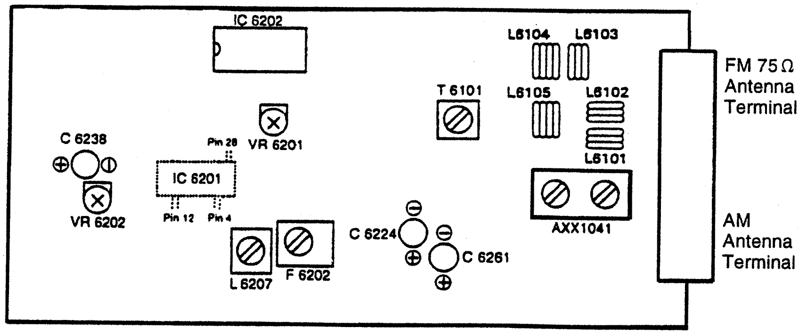

IC 6202
L6104
L6103
T 6101
L6105
L6102
L6101
C 6238
Pin 28
VR 6201
IC 6201
Pin 12
Pin 4
VR 6202
L 6207
F 6202
C 6224
C 6261
AXX1041
FM 75Ω Antenna Terminal
AM Antenna Terminal

Fig. 1–2 Adjustment Points

■ RDS ADJUSTMENT (FOR XR-P360 ONLY)

- Setting the RDS-Signal generator (*1).
- Set the mode selector to FM BAND.
- Connect the wiring as shown in Fig. 2–1.

*Note *1: Audio Main 1 kHz, 85%*
Pilot 10% RDS 1.6%
SK 4.7%

Step No.	Adjustment Title	FM SG (1kHz, ±75kHz dev.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (MHz)	Level (dBµV)			
1	RDS (BPF) Level	88	60	88 MHz	VR3501	Adjust so that the Waveform of RDS test point becomes at maximum. (Photo 1)

Notes)

- *Entry into RDS mode is done by switching to the FM band and entering an RDS signal from FM (RDS) SG to the FM 75 Ω antenna terminal.*
- *The XR-P360 does not have the RDS IND. lighting function.*

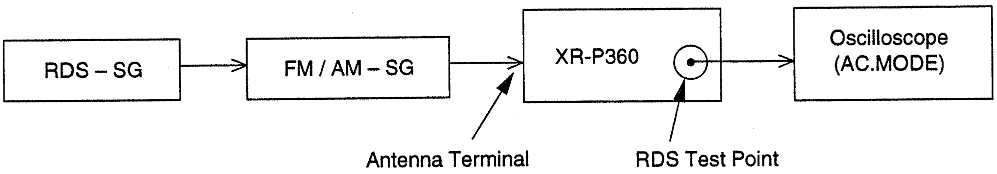

RDS – SG
FM / AM – SG
XR-P360
Oscilloscope (AC.MODE)
Antenna Terminal
RDS Test Point

Fig. 2–1 RDS Adjustment Wiring Diagram

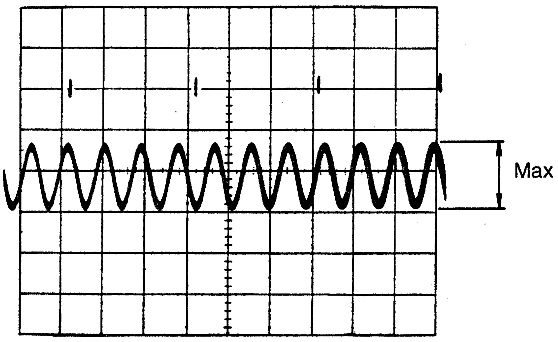


Photo 1

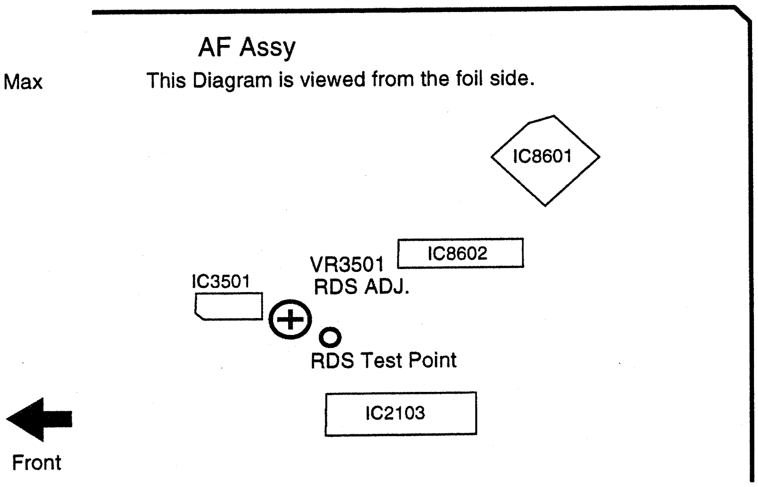
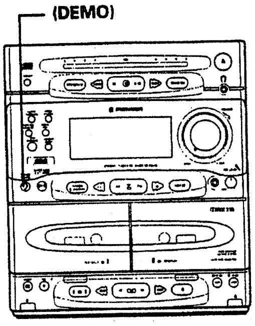

AF Assy
This Diagram is viewed from the foil side.
IC8601
VR3501
RDS ADJ.
IC8602
IC3501
RDS Test Point
IC2103
Front

Fig. 2–2 Adjustment Points

PIONEER®
The Art of Entertainment



PION - 04863

Service Manual

ORDER NO.
RRV1410

X-P360S
X-P360SG
STEREO CD CASSETTE DECK RECEIVER
XR-P360
XR-P360G

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model		Power Requirement	The voltage can be converted by the following method.
	XR-P360	XR-P360G		
DD	○	–	AC110–127V/220-230V/240V	With the voltage selector
D/DF	–	○	AC110–127V/220-230V/240V	With the voltage selector

- **X-P360S and X-P360SG are combination of the following components.**

X-P360S ─┬─ STEREO CD CASSETTE DECK RECEIVER : XR-P360
└─ SPEAKER SYSTEM : S-P3600V
X-P360SG ─┬─ STEREO CD CASSETTE DECK RECEIVER : XR-P360G
└─ SPEAKER SYSTEM : S-P3600V

- **For speaker system S-P3600V, refer to the service manual RRV1418.**

+4862

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PIONEER ELECTRONICS SERVICE INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER ELECTRONIC [EUROPE] N.V. Haven 1087 Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 501 Orchard Road, #10-00 Lane Crawford Place, Singapore 0923

4863

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T–DFK OCT. 1995 Printed in Japan

CONTENTS

1. EXPLODED VIEWS, PACKING AND PARTS LIST 2
2. SCHEMATIC AND PCB CONNECTION DIAGRAMS 15
3. PCB PARTS LIST 43
4. ADJUSTMENTS 51
5. IC INFORMATION 62
6. FL INFORMATION 68
7. BLOCK DIAGRAM 70
8. DISASSEMBLY 71
9. PANEL FACILITIES 72
10 .SPECIFICATIONS 74

1. EXPLODED VIEWS, PACKING AND PARTS LIST

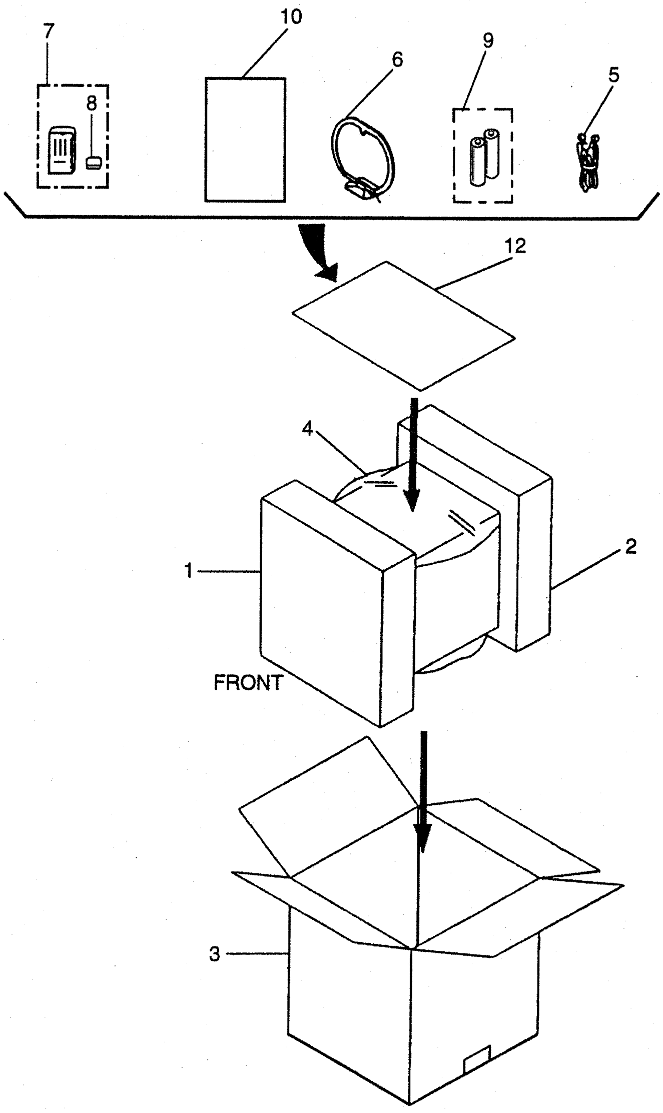
NOTES :

- *Parts marked by* " NSP " *are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉ "are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

1.1 PACKING

Parts List

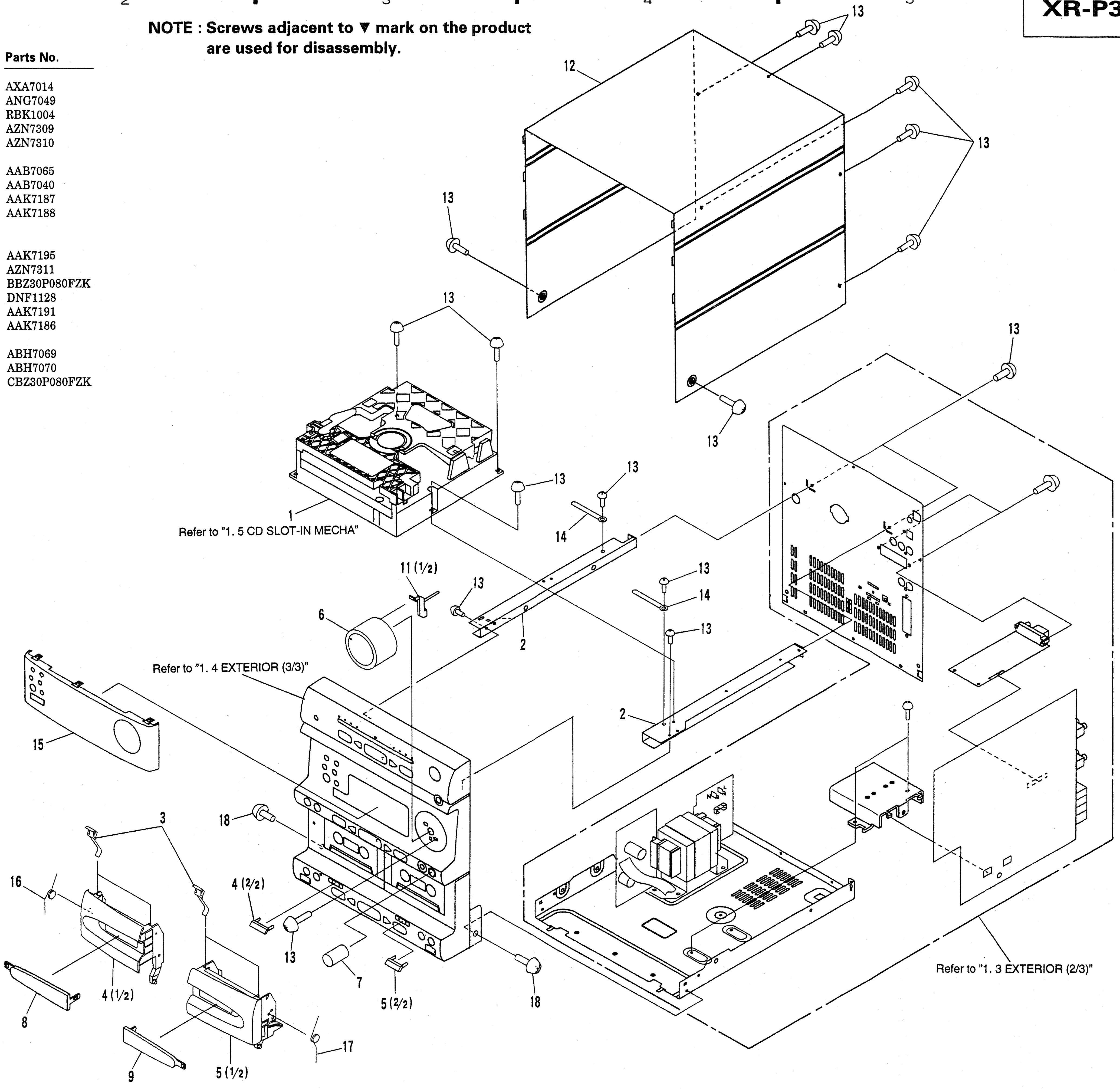
Mark	No.	Description	Parts No.
	1	FRONT PAD	AHA7084
	2	REAR PAD	AHA7085
	3	PACKING CASE (for XR-P360/DD)	AHD7226
	3	PACKING CASE (for XR-P360G/D/DF)	AHD7209
	4	SHEET	AHG7003
	5	FM ANTENNA	ADH1016
	6	LOOP ANTENNA ASSY	ATB1012
	7	REMOTE CONTROL UNIT (CU-XR015)	AXD7030
	8	BATTERY COVER	AZA7050
NSP	9	BATTERY (R03, AAA)	VEM-022
	10	OPERATING INSTRUCTIONS (English/Spanish/Chinese)	ARE7054
	11	....	
	12	POLY BAG (0.03 × 230 × 340)	Z21-038



1.2 EXTERIOR (1/3)

Mark	No.	Description	Parts No.
NSP	1	CD SLOT-IN MECHA	AXA7014
	2	CD HOLDER	ANG7049
	3	SPRING	RBK1004
	4	CASSETTE DOOR L	AZN7309
	5	CASSETTE DOOR R	AZN7310
	6	VOLUME KNOB	AAB7065
	7	MIC VOLUME KNOB	AAB7040
	8	DECK PLATE L	AAK7187
	9	DECK PLATE R	AAK7188
	10	···············	
	11	VOL. LENS	AAK7195
	12	BONNET	AZN7311
	13	SCREW	BBZ30P080FZK
NSP	14	CORD HOLDER	DNF1128
	15	FL PLATE (for XR-P360/DD)	AAK7191
	15	FL PLATE (for XR-P360G/D/DF)	AAK7186
	16	DOOR SPRING L	ABH7069
	17	DOOR SPRING R	ABH7070
	18	SCREW	CBZ30P080FZK

NOTE : Screws adjacent to ▼ mark on the product are used for disassembly.


13
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Refer to "1. 5 CD SLOT-IN MECHA"
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11 (1/2)
13
6
2
2
Refer to "1. 4 EXTERIOR (3/3)"
15
18
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16
4 (2/2)
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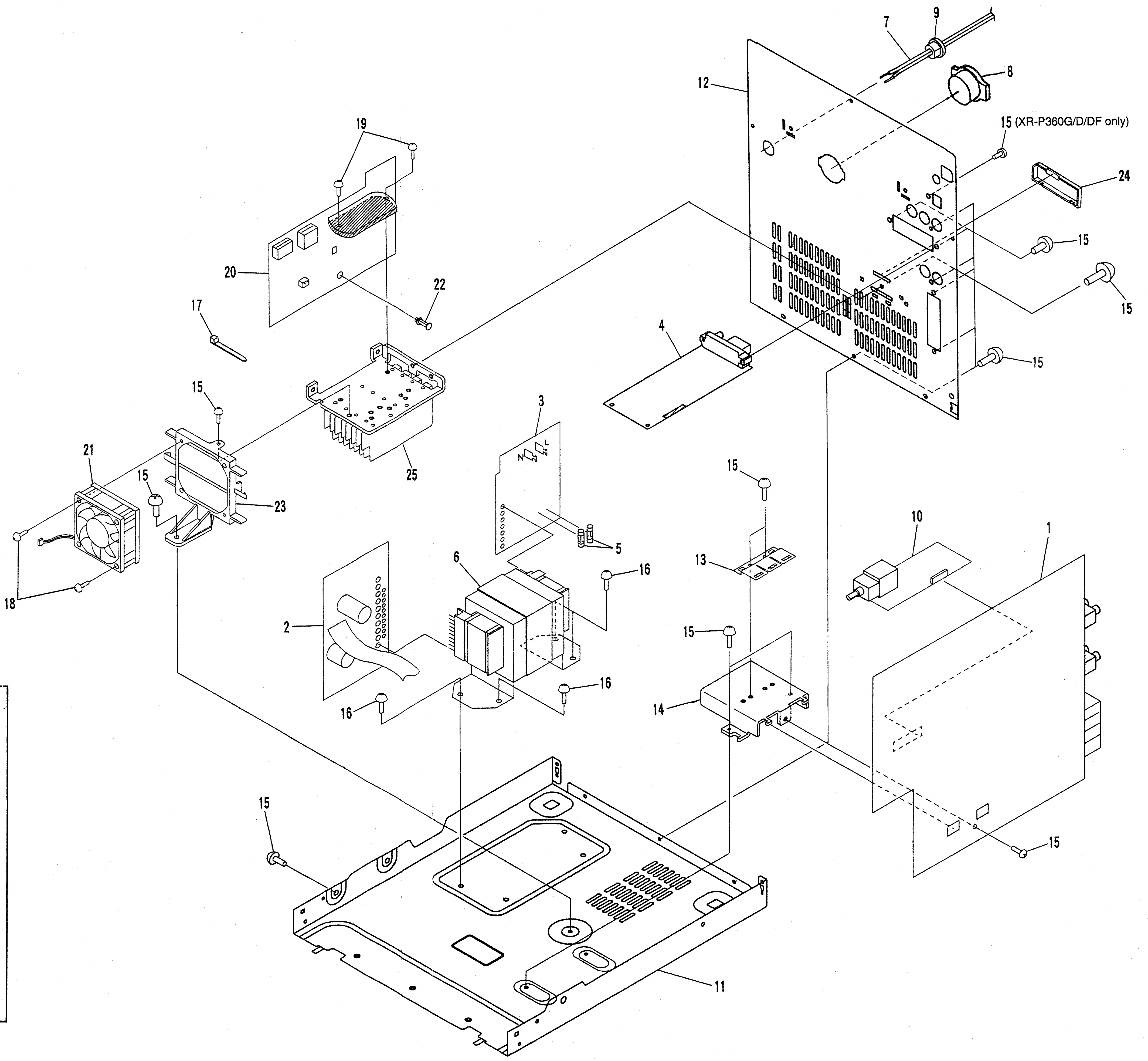
7
5 (2/2)
18
4 (1/2)
8
9
5 (1/2)
17
Refer to "1. 3 EXTERIOR (2/3)"

1.3 EXTERIOR (2/3)

Mark	No.	Description	Parts No.
⚠	1	AF ASSY (for XR-P360/DD)	AWZ7809
⚠	1	AF ASSY (for XR-P360G/D/DF)	AWZ8052
	2	SECONDARY ASSY	AWZ7819
⚠	3	PRIMARY ASSY	AWZ7813
	4	FM/AM TUNER MODULE (for XR-P360/DD)	AXQ1012
	4	FM/AM TUNER MODULE (for XR-P360G/D/DF)	AXQ7021
⚠	5	FUSE (1.25A, FU2, FU3)	REK-101
⚠	6	POWER TRANSFORMER (T1)	ATS7076
⚠	7	AC POWER CORD	PDG1013
⚠	8	VOLTAGE SELECTOR (S1)	AKX7002
	9	STRAIN RELIEF	CM-22B
	10	VR ASSY	AWZ7823
NSP	11	CHASSIS	ANA7031
	12	REAR PANEL (for XR-P360/DD)	ANC7283
	12	REAR PANEL (for XR-P360G/D/DF)	ANC7266
	13	POWER PACK HOLDER	ANG7051
	14	HEAT SINK	ANH7025
	15	SCREW	BBZ30P080FZK
	16	SCREW	ASZ40P060FMC
	17	BINDER	ZCA-SKB90BK
	18	SCREW	BPZ30P350FZK
	19	SCREW	BBZ30P160FMC
	20	PAC FAN ASSY	AWZ7834
	21	FAN MOTOR	AXM7003
	22	PCB SUPPORT	AEC7047
	23	MOLD A	AMR2594
	24	COVER	AMR7098
	25	POWER HEAT SINK	ANH7024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15 (XR-P360G/D/DF only)
24
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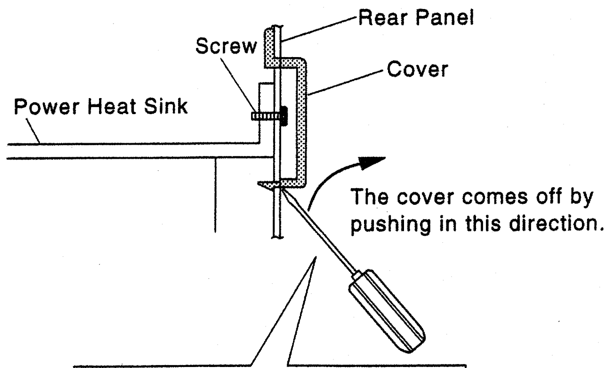
11

● Cover (No. 24) Removal

As the screw cover covers the screw tightening the power heat sink (No. 25) and the rear panel (No. 12), it most be removed from the rear panel for removal of the power heat sink.

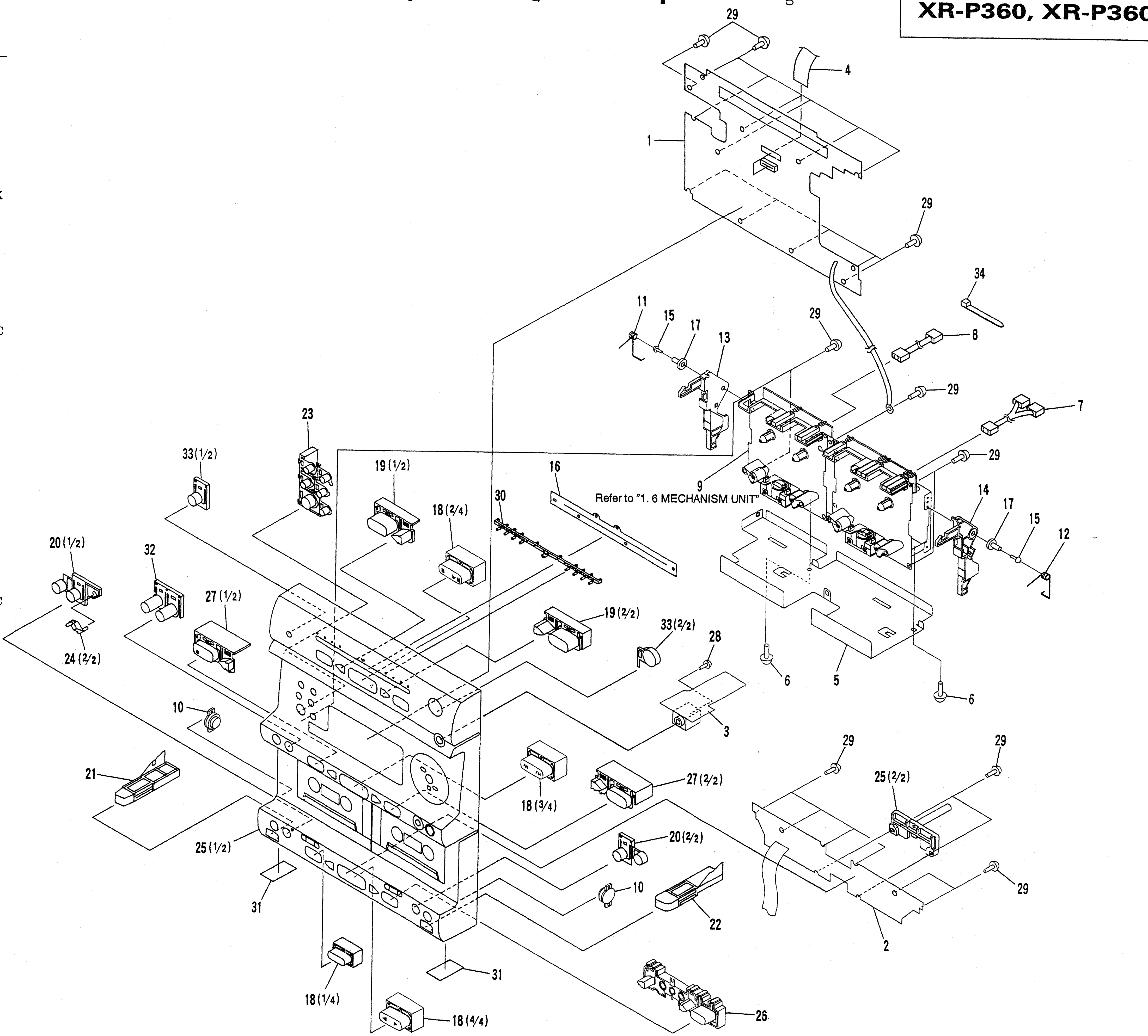

Rear Panel
Screw
Cover
Power Heat Sink

The cover comes off by pushing in this direction.

Insert a flat screwdriver into the hook part and push up.

1.4 EXTERIOR (3/3)

Mark	No.	Description	Parts No.
	1	DISPLAY ASSY (for XR-P360/DD)	AWZ7827
	1	DISPLAY ASSY (for XR-P360G/D/DF)	AWZ8230
NSP	2	DECK SW ASSY	AWZ7831
NSP	3	H.P. ASSY	AWZ8298
	4	FLEXIBLE FLAT CABLE	ADD7004
	5	MECHA SHIELD	ANG7052
	6	SCREW	BBZ30P080FZK
	7	CONNECTOR ASSY (5P)	RKP1582
	8	CONNECTOR ASSY (3P)	RKP1583
	9	MECHA UNIT	RYM1248
	10	DAMPER ASSY	AXA7021
	11	EJECT SPRING (L)	RBH1411
	12	EJECT SPRING (R)	RBH1412
	13	EJECT ARM (L)	AMR7020
	14	EJECT ARM (R)	AMR7021
	15	SCREW	BSZ20P120FMC
	16	COVER PLATE	AWL7015
	17	COLLAR	RNK2135
	18	PLAY BUTTON	AAD7213
	19	CD BUTTON	AAD7215
	20	REC BUTTON	AAD7269
	21	EJECT BUTTON L	AAD7173
	22	EJECT BUTTON R	AAD7174
	23	TIMER BUTTON	AAD7217
	24	VOL. LENS	AAK7195
	25	FRONT PANEL	AZN7308
	26	DECK BUTTON	AAD7218
	27	POWER BUTTON ASSY (for XR-P360/DD)	AAD7236
	27	POWER BUTTON ASSY (for XR-P360G/D/DF)	AAD7219
	28	SCREW	ABA1005
	29	SCREW	BPZ30P080FMC
	30	CD LENS	AAK7189
	31	RUBBER SHEET	AEB1111
	32	SURROUND BUTTON	AAD7267
	33	DISPLAY BUTTON	AAD7268
	34	BINDER	ZCA-SKB90BK


Refer to "1. 6 MECHANISM UNIT"

29
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33(1/2)
19(1/2)
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18(2/4)
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27(1/2)
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33(2/2)
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6
24(2/2)
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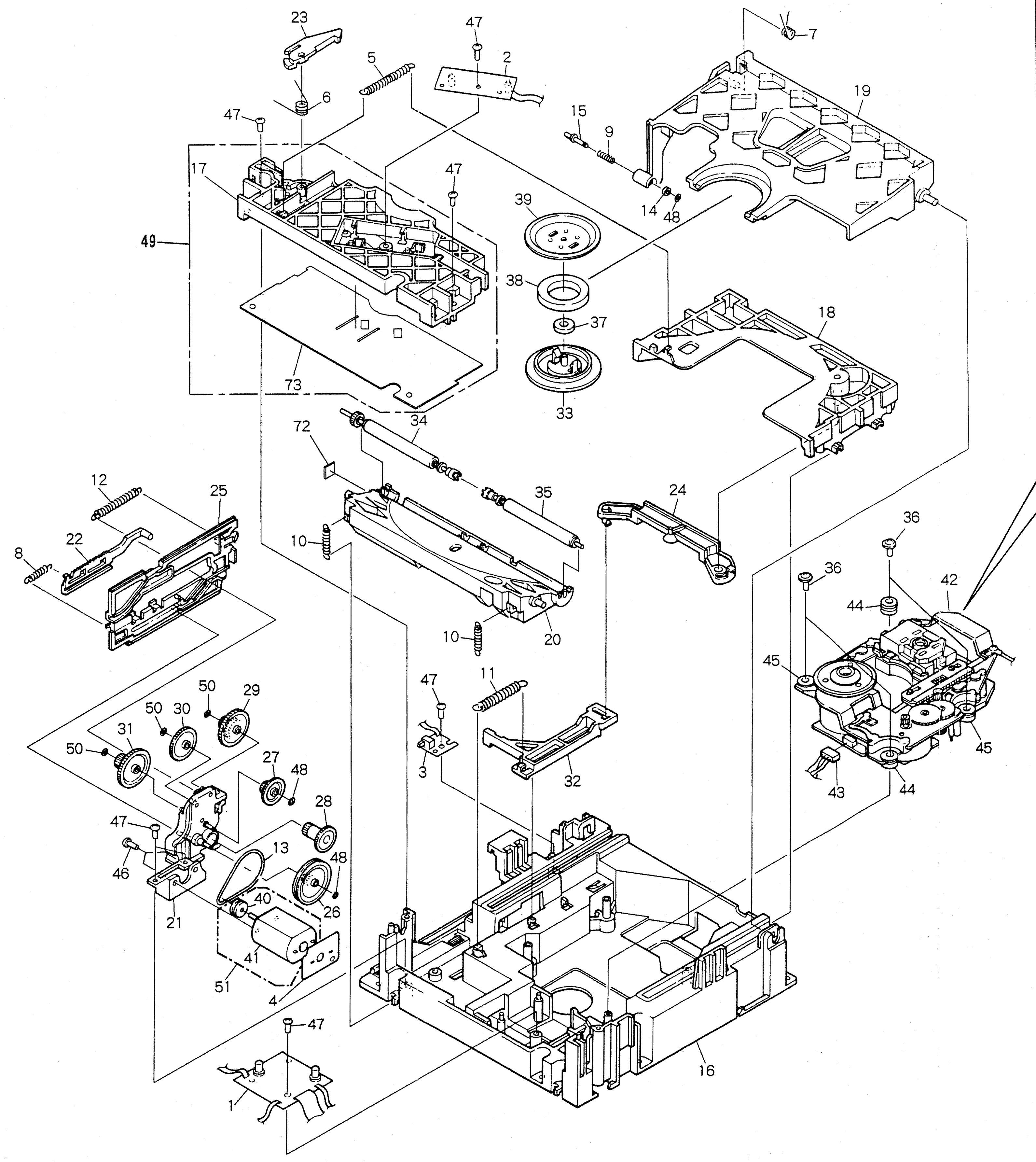
21
18(3/4)
27(2/2)
29
25(2/2)
29
25(1/2)
20(2/2)
31
10
22
29
2
31
18(1/4)
26
18(4/4)

1. 5 CD SLOT-IN MECHA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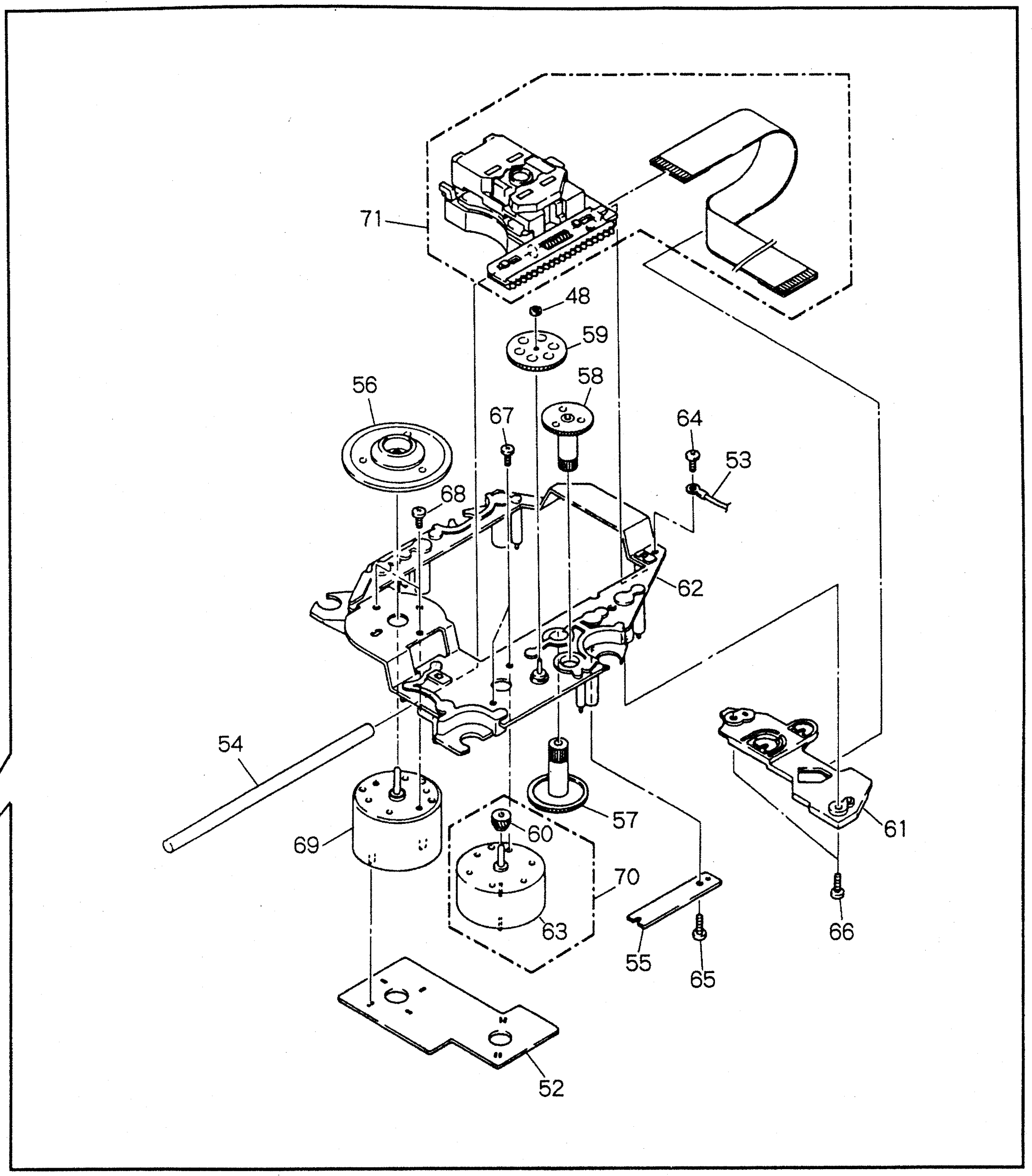
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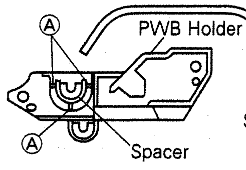
52

● How to install the disc table

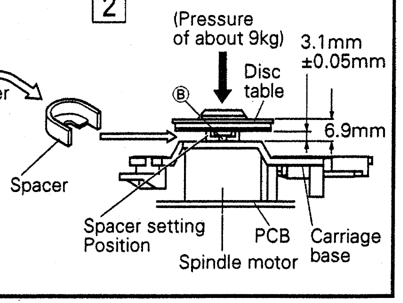
1. Use nipper or other tool to cut the three sections marked Ⓐ figure 1. Then remove the spacer.

2. While supporting the spindle motor shaft with the stopper, put spacer on top of the motor base (angled so it doesn't touch section Ⓑ), and stick the disc table on top (takes about 9kg pressure). Take off the spacer.

1


Ⓐ
PWB Holder
Ⓐ
Spacer
Spacer

2


(Pressure of about 9kg)
3.1mm ±0.05mm
Disc table
Ⓑ
6.9mm
Spacer setting Position
PCB
Spindle motor
Carriage base

Mark	No.	Description	Parts No.
NSP	1	SENSOR BOARD ASSY	AWZ7328
NSP	2	LED BOARD ASSY	AWZ7329
NSP	3	SW BOARD ASSY	AWZ7330
NSP	4	MOTOR BOARD ASSY	AWZ7331
	5	SPRING	ABH7035
	6	ROCK LEVER SPRING	ABH7019
	7	CLAMP SPRING	ABH7020
	8	RACK SPRING	ABH7021
	9	P SPRING	ABH7022
	10	ROLLER HOLDER SPRING	ABH7023
	11	SPRING B	ABH7024
	12	CAM PLATE SPRING	ABH7025
	13	BELT A	AEB7012
	14	WASHER	AEB7018
	15	PIN	ALA7005
	16	MECHANISM BASE	ANW7022
	17	DISC PLATE	ANW7023
	18	CENTERING PLATE	ANW7024
	19	CLAMPER HOLDER	ANW7025
	20	ROLLER HOLDER	ANW7078
	21	GEAR HOLDER	ANW7027
	22	RACK	ANW7028
	23	ROCK LEVER	ANW7029
	24	STARTING LEVER	ANW7030
	25	CAM PLATE	ANW7031
	26	GEAR PULLEY	ANW7032
	27	GEAR A	ANW7033
	28	GEAR B	ANW7034
	29	GEAR C	ANW7035
	30	GEAR D	ANW7036
	31	DRIVE GEAR	ANW7037
	32	STARTING PLATE	ANW7038
	33	CLAMPER	ANW7044
	34	ROLLER ASSY L	AXA7019
	35	ROLLER ASSY R	AXA7020
	36	SCREW	PBA1048
NSP	37	H SPACER	PEB1249
	38	CLAMP MAGNET	PMF1014
	39	YOKE	PNB1216
	40	MOTOR PULLEY	PNW1634
NSP	41	MOTOR	PXM1002
NSP	42	SERVO MECHANISM ASSY SL	AXA7017
	43	CONNECTOR ASSY 2P (2mm PITCH)	PDE1238
	44	FLOAT RUBBER	PEB1014
	45	FLOAT RUBBER	PEB1132
	46	SCREW	BMZ20P040FMC
	47	SCREW	PPZ30P060FMC
	48	WASHER	WT12D032D025
	49	DISC PLATE ASSY	AEA7003
	50	WASHER	WT17D034D025
	51	MOTOR ASSY	AEA7000
	52	MECHANISM BOARD ASSY	PWX1192
	53	GROUND LEAD UNIT	PDF1104
	54	GUIDE BAR	PLA1094
NSP	55	GEAR STOPPER	PNB1303
	56	DISC TABLE	PNW1608
	57	GEAR 1	PNW2052
	58	GEAR 2	PNW2053
	59	GEAR 3	PNW2054
	60	PINION GEAR	PNW2055
	61	PWB HOLDER	PNW2057
	62	CARRIAGE BASE	PNW2445
NSP	63	DC MOTOR (CARRIAGE)	PXM1027
	64	SCREW	BBZ26P060FMC
	65	SCREW	BPZ20P060FMC
	66	SCREW	BPZ26P100FMC
	67	SCREW	JFZ17P025FZK
	68	SCREW	JFZ20P030FNI
	69	DC MOTOR ASSY (SPINDLE)	PEA1235
	70	DC MOTOR ASSY (CARRIAGE)	PEA1246
	71	PICKUP ASSY	PEA1291
	72	AV SHEET	AEB7021
NSP	73	DISC PLATE SHEET	AEB7035
	74	OIL (GREEN)	GEM1015

1.6 MECHANISM UNIT

● Mechanism unit I and II (1/2)

Mark	No.	Description	Parts No.
	1	ASSY MOTOR	RXM1080
NSP	2	JUMPER WIRE	RDD1012
	3	BRACKET MOTOR	RNE1830
	4	SPACER	RNK1822
	5	SCREW	RBA1100
	6	SCREW	PCZ20P040FMC

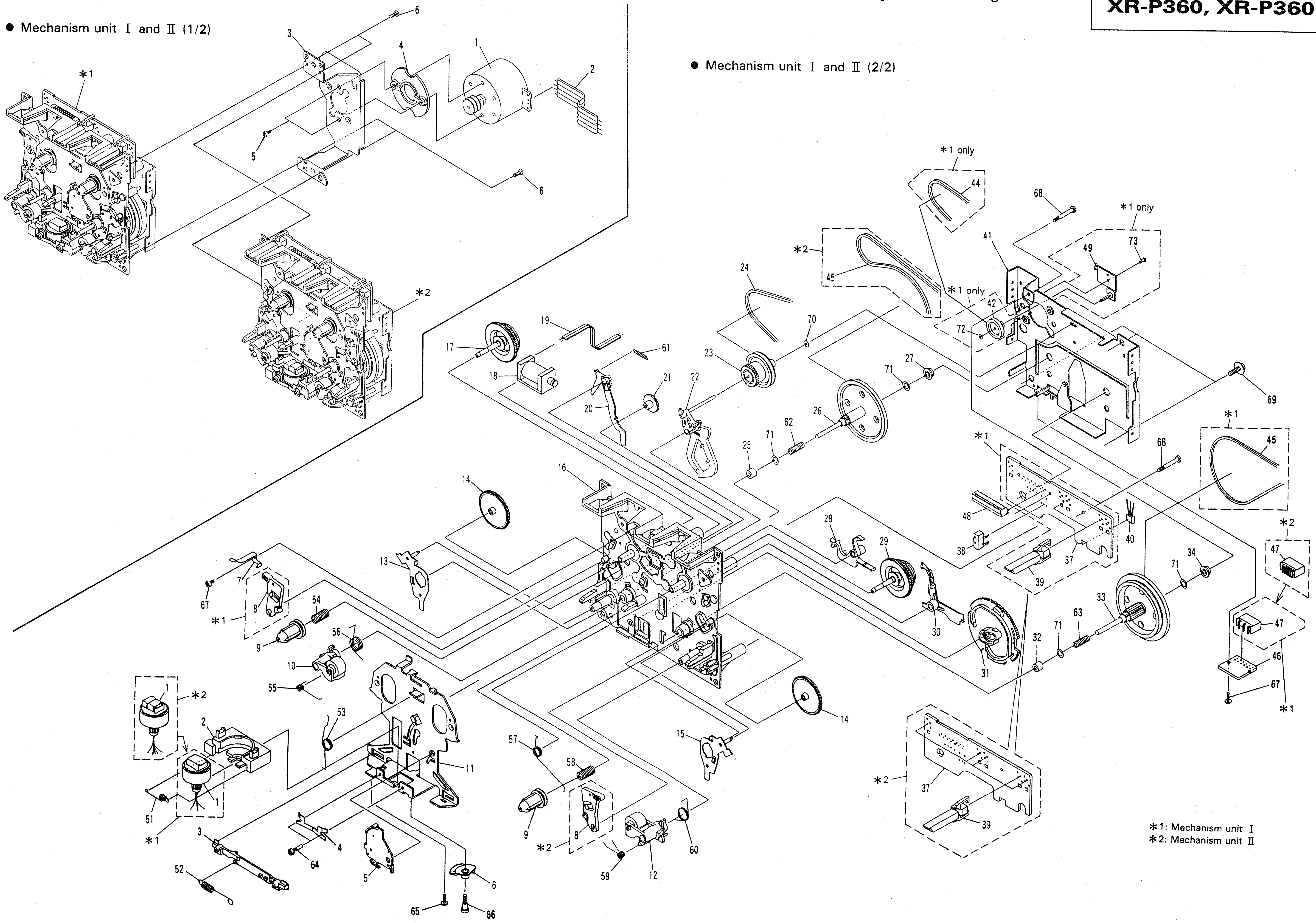
● Mechanism unit I and II (2/2)

Mark	No.	Description	Parts No.
	1	ASSY HOLDER HEAD (*1)	RXA1400
	1	ASSY HOLDER HEAD (*2)	RXA1664
	2	FRAME HEAD	RNK1715
	3	LEVER HEAD	RNK1716
	4	SPRING AZIMUTH	RBK1006
	5	ASSY ARM ASSIST	RXA1401
	6	GEAR ARM HEAD	RNK1717
	7	SPRING CASSETTE	RBK1039
	8	EJECT LOCK	RNK1718
	9	CAP REEL	RNK1719
	10	ASSY PINCH ARM L	RXA1403
	11	CHASSIS HEAD	RNE1437
	12	ASSY PINCH ARM R	RXA1404
	13	ARM PLAY L	RNK1866
	14	GEAR PLAY	RNK1867
	15	ARM PLAY R	RNK1868
	16	CHASSIS OS	RXA1411
	17	ASSY SUB REEL L	RXA1407
	18	SOLENOID	RXP1020
	19	WIRE	RDC1006
	20	ARM RVS	RNK1721
	21	GEAR FF	RNK1723
	22	ASSY ARM FR	RXA1412
	23	ASSY PULLEY FR	RXA1413
	24	BELT FR	REB1292
	25	METAL	RNG1048
	26	ASSY FLYWHEEL L	RXA1690
	27	METAL	RNG1005
	28	ARM BRAKE	RNK1724
	29	ASSY SUB REEL R	RXA1408
	30	ARM TRIGER	RNK1722
	31	GEAR CAM	RNK1725
	32	METAL	RNG1049
	33	ASSY FLYWHEEL R	RXA1691
	34	METAL	RNG1004
	35	···············	
	36	···············	
	37	P. C. BOARD	RNP1610
	38	SWITCH MODE	RSN1020
	39	SWITCH (LEAF)	RSN1019
	40	HALL IC	DN6851A
	41	BRACKET FW (*1)	RNE1854
	41	BRACKET FW (*2)	RNE1438
	42	PULLEY (*1 only)	RNK2132
	43	··················	
	44	BELT FW (*1 only)	REB1291
	45	BELT MAIN (* 1)	REB1290
	45	BELT MAIN (* 2)	REB1289
	46	P. C. BOARD	RNP1348
	47	HOUSING (*1)	RKP1396
	47	HOUSING (*2)	RKP1397
	48	CONNECTOR (*1)	RKP1713
	48	CONNECTOR (*2)	RKP1714
	49	ASSY HOLDER (*1 only)	RXA1689
	50	··················	
	51	SPRING	RBH1282
	52	SPRING	RBH1283
	53	SPRING	RBH1284
	54	SPRING	RBH1286
	55	SPRING	RBH1288
	56	SPRING	RBH1291
	57	SPRING	RBH1285
	58	SPRING	RBH1287
	59	SPRING	RBH1289
	60	SPRING	RBH1290
	61	SPRING	RBH1292
	62	FWP SP (SPRING)	RBH1061
	63	SPRING	RBH1325
	64	SCREW (For AZIMUTH)	RBA1023
	65	SCREW	RBA1027
	66	SCREW	RBA1030
	67	SCREW	PCZ20P040FMC
	68	SCREW	RBA1093
	69	SCREW	RBA1094
	70	WASHER	RBF1046
	71	WASHER	WA26D047D013
	72	WASHER (*1 only)	WT13D030D025
	73	SCREW (*1 only)	RBA1118

*Note) *1: Mechanism Unit I*
**2: Mechanism Unit II*

- Mechanism unit Ⅰ and Ⅱ (1/2)

- Mechanism unit Ⅰ and Ⅱ (2/2)


*1
*2
*1 only
*1 only
*1 only
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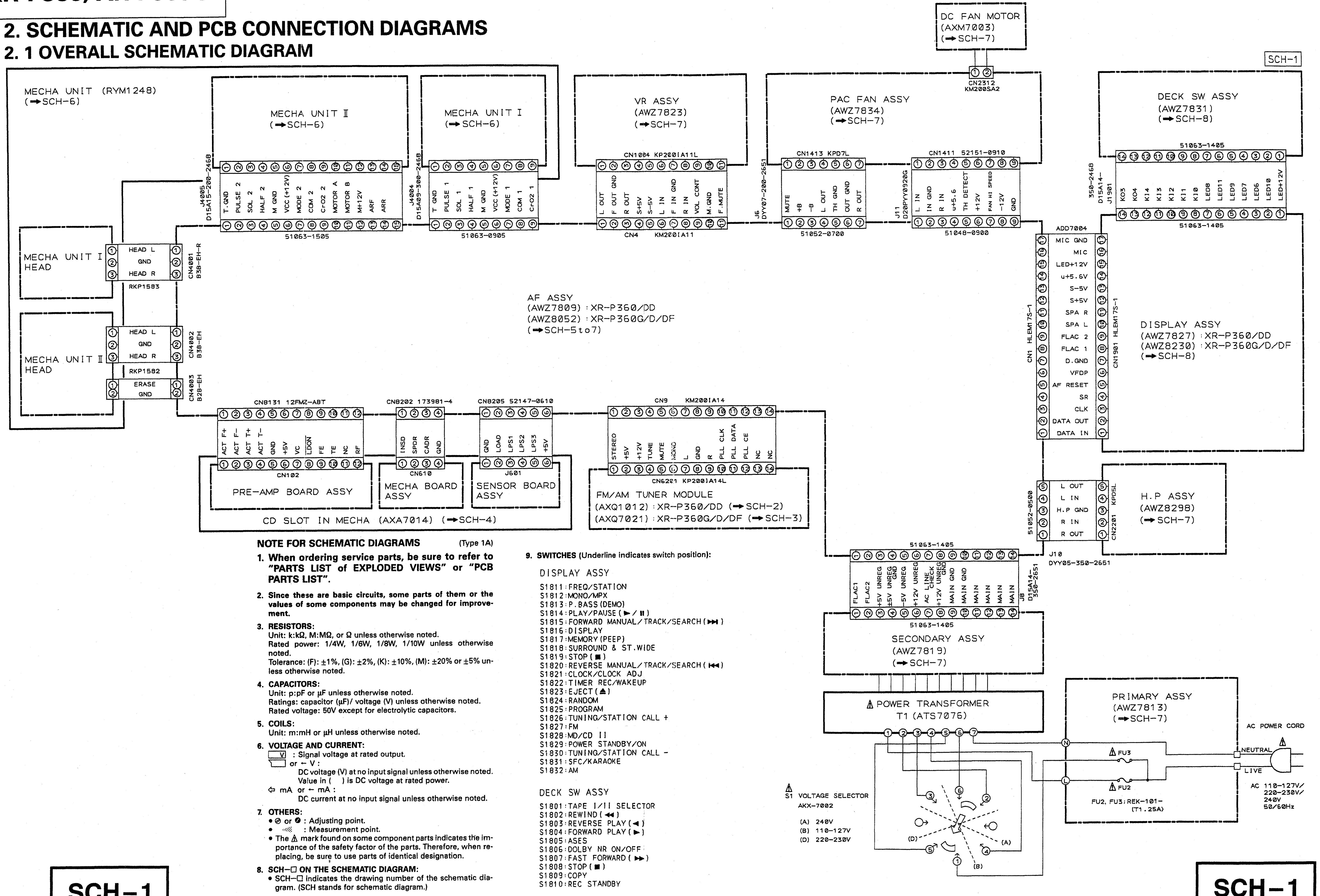
*1: Mechanism unit Ⅰ
*2: Mechanism unit Ⅱ

2. SCHEMATIC AND PCB CONNECTION DIAGRAMS

2. 1 OVERALL SCHEMATIC DIAGRAM


SCH-1
A
B
C
D
MECHA UNIT (RYM1248)
(➡SCH-6)
MECHA UNIT Ⅱ
(➡SCH-6)
MECHA UNIT I
(➡SCH-6)
J4005
D15A15-200-2468
T.GND
PULSE 2
SOL 2
HALF 2
M GND
VCC (+12V)
MODE 2
COM 2
CrO2 2
MOTOR A
MOTOR B
M+12V
ARF
ARR
51063-1505
J4004
D15A09-300-2468
T GND
PULSE 1
SOL 1
HALF 1
M GND
VCC (+12V)
MODE 1
COM 1
CrO2 1
51063-0905
MECHA UNIT I
HEAD
HEAD L
GND
HEAD R
RKP1583
CN4001
B3B-EH-R
MECHA UNIT Ⅱ
HEAD
HEAD L
GND
HEAD R
RKP1582
CN4002
B3B-EH
ERASE
GND
CN4003
B2B-EH
AF ASSY
(AWZ7809) : XR-P360/DD
(AWZ8052) : XR-P360G/D/DF
(➡SCH-5to7)
VR ASSY
(AWZ7823)
(➡SCH-7)
CN1004 KP200IA11L
L OUT
F OUT GND
R OUT
S+5V
S-5V
L IN
F IN GND
R IN
VOL CONT
M.GND
F.MUTE
CN4 KM200IA11
DC FAN MOTOR
(AXM7003)
(➡SCH-7)
CN2312
KM200SA2
PAC FAN ASSY
(AWZ7834)
(➡SCH-7)
J6
DYY07-200-2651
CN1413 KPD7L
MUTE
+B
-B
L OUT
TH GND
OUT GND
R OUT
51052-0700
J11
D20PYY0920G
CN1411 52151-0910
L IN
IN GND
R IN
u+5.6
TH DETECT
+12V
FAN HI SPEED
-12V
GND
51048-0900
DECK SW ASSY
(AWZ7831)
(➡SCH-8)
51063-1405
350-2468
D15A14-
J1901
KO3
KO4
KI4
KI3
KI2
KI1
KI0
LED8
LED11
LED9
LED7
LED6
LED10
LED+12V
51063-1405
ADD7004
CN1 HLEM17S-1
MIC GND
MIC
LED+12V
u+5.6V
S-5V
S+5V
SPA R
SPA L
FLAC 2
FLAC 1
D.GND
VFDP
AF RESET
SR
CLK
DATA OUT
DATA IN
CN1901 HLEM17S-1
DISPLAY ASSY
(AWZ7827) : XR-P360/DD
(AWZ8230) : XR-P360G/D/DF
(➡SCH-8)
CN8131 12FMZ-ABT
ACT F+
ACT F-
ACT T+
ACT T-
GND
+5V
VC
LDON
FE
TE
NC
RF
CN102
PRE-AMP BOARD ASSY
CN8202 173981-4
INSD
SPDR
CADR
GND
CN610
MECHA BOARD ASSY
CN8205 52147-0610
GND
LOAD
LPS1
LPS2
LPS3
+5V
J601
SENSOR BOARD ASSY
CD SLOT IN MECHA (AXA7014) (➡SCH-4)
CN9 KM200IA14
STEREO
+5V
+12V
TUNE
MUTE
MONO
L
GND
R
PLL CLK
PLL DATA
PLL CE
NC
NC
CN6201 KP200IA14L
FM/AM TUNER MODULE
(AXQ1012) : XR-P360/DD (➡SCH-2)
(AXQ7021) : XR-P360G/D/DF (➡SCH-3)
51052-0500
L OUT
L IN
H.P GND
R IN
R OUT
CN2201 KPD5L
H.P ASSY
(AWZ8298)
(➡SCH-7)
J10
DYY05-350-2651
51063-1405
FLAC1
FLAC2
+5V UNREG
±5V UNREG GND
-5V UNREG
+12V UNREG
AC LINE CHECK
+12V UNREG GND
MAIN GND
MAIN GND
MAIN
MAIN
MAIN
MAIN
J8
D15A14-350-2651
51063-1405
SECONDARY ASSY
(AWZ7819)
(➡SCH-7)
⚠ POWER TRANSFORMER
T1 (ATS7076)
⚠
S1 VOLTAGE SELECTOR
AKX-7002
(A) 240V
(B) 110-127V
(D) 220-230V
(A)
(B)
(D)
PRIMARY ASSY
(AWZ7813)
(➡SCH-7)
N
L
⚠ FU3
⚠ FU2
FU2, FU3 : REK-101-
(T1.25A)
AC POWER CORD
NEUTRAL
LIVE
AC 110-127V/
220-230V/
240V
50/60Hz

NOTE FOR SCHEMATIC DIAGRAMS (Type 1A)

1. **When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".**
2. **Since these are basic circuits, some parts of them or the values of some components may be changed for improvement.**
3. **RESISTORS:**
   Unit: k:kΩ, M:MΩ, or Ω unless otherwise noted.
   Rated power: 1/4W, 1/6W, 1/8W, 1/10W unless otherwise noted.
   Tolerance: (F): ±1%, (G): ±2%, (K): ±10%, (M): ±20% or ±5% unless otherwise noted.
4. **CAPACITORS:**
   Unit: p:pF or µF unless otherwise noted.
   Ratings: capacitor (µF)/ voltage (V) unless otherwise noted.
   Rated voltage: 50V except for electrolytic capacitors.
5. **COILS:**
   Unit: m:mH or µH unless otherwise noted.
6. **VOLTAGE AND CURRENT:**
   $\boxed{\quad V}$: Signal voltage at rated output.
   ⏋ or ← V :
   DC voltage (V) at no input signal unless otherwise noted.
   Value in ( ) is DC voltage at rated power.
   ⇦ mA or ← mA :
   DC current at no input signal unless otherwise noted.
7. **OTHERS:**
   - ⊘ or ● : Adjusting point.
   - ▨ : Measurement point.
   - The ⚠ mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.
8. **SCH-☐ ON THE SCHEMATIC DIAGRAM:**
   - SCH-☐ indicates the drawing number of the schematic diagram. (SCH stands for schematic diagram.)
9. **SWITCHES** (Underline indicates switch position):

DISPLAY ASSY

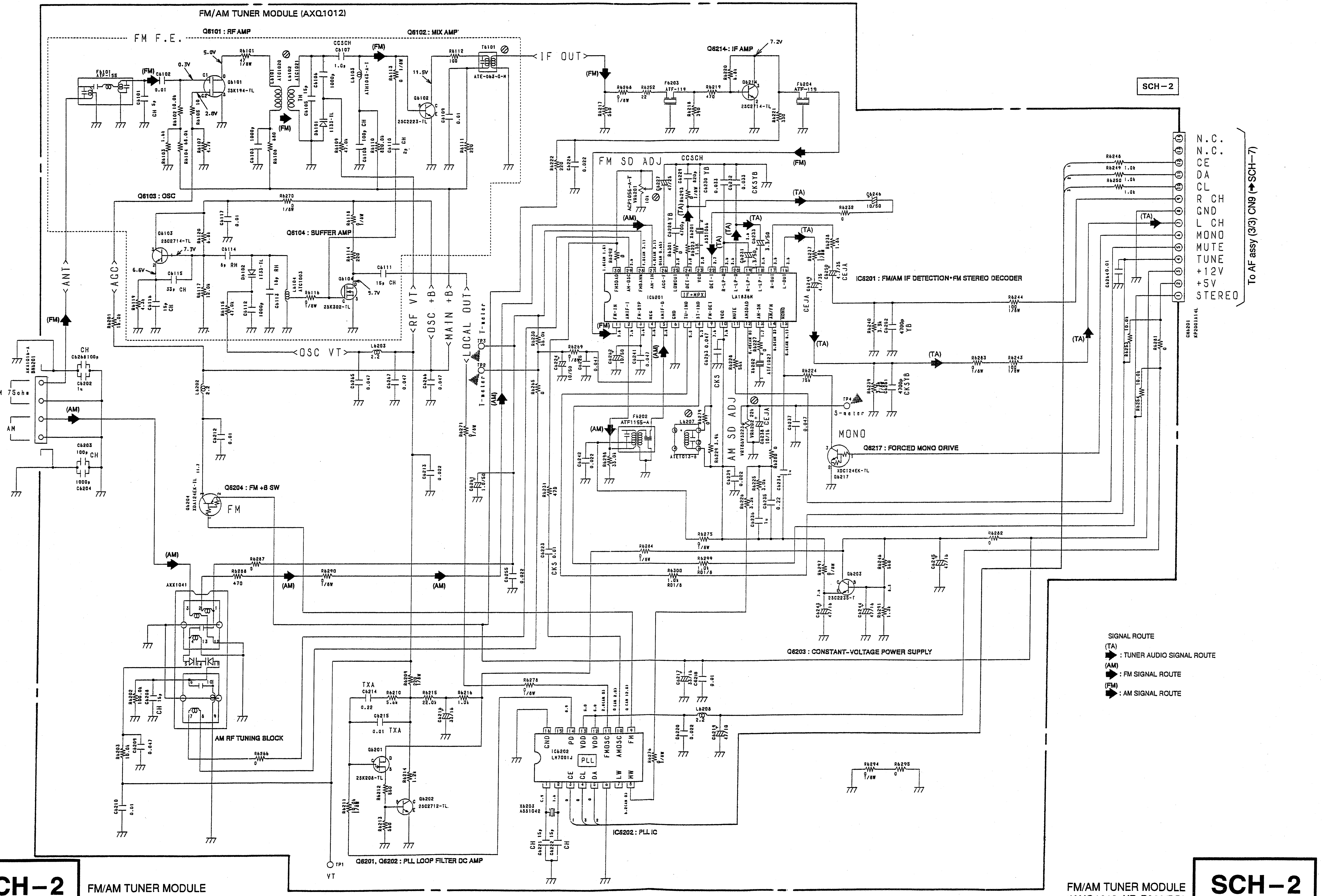
S1811 : FREQ/STATION
S1812 : MONO/MPX
S1813 : P.BASS (DEMO)
S1814 : PLAY/PAUSE (▶/❚❚)
S1815 : FORWARD MANUAL/TRACK/SEARCH (▶▶❚)
S1816 : DISPLAY
S1817 : MEMORY (PEEP)
S1818 : SURROUND & ST.WIDE
S1819 : STOP (■)
S1820 : REVERSE MANUAL/TRACK/SEARCH (❚◀◀)
S1821 : CLOCK/CLOCK ADJ
S1822 : TIMER REC/WAKEUP
S1823 : EJECT (⏏)
S1824 : RANDOM
S1825 : PROGRAM
S1826 : TUNING/STATION CALL +
S1827 : FM
S1828 : MD/CD II
S1829 : POWER STANDBY/ON
S1830 : TUNING/STATION CALL -
S1831 : SFC/KARAOKE
S1832 : AM

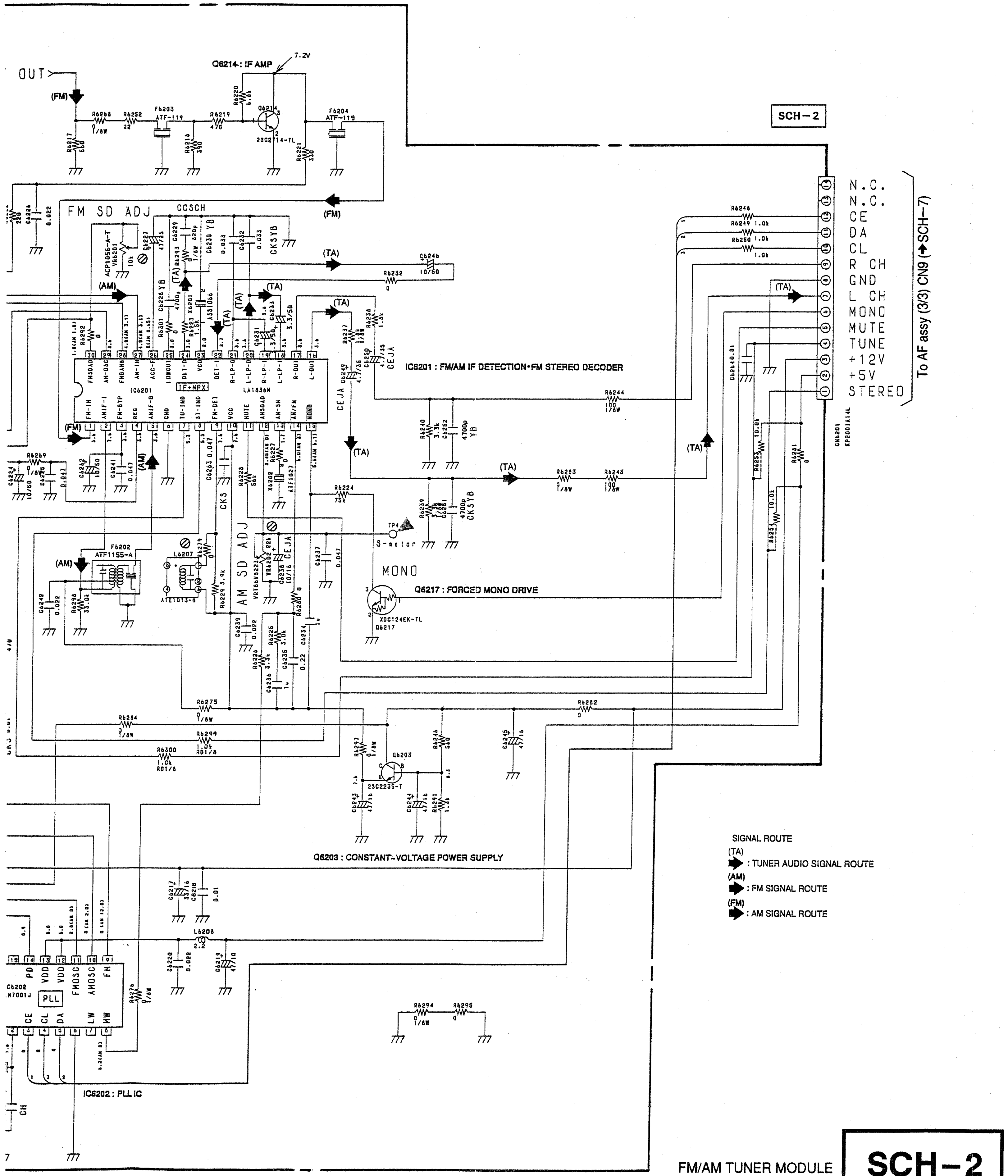
DECK SW ASSY

S1801 : TAPE I/II SELECTOR
S1802 : REWIND (◀◀)
S1803 : REVERSE PLAY (◀)
S1804 : FORWARD PLAY (▶)
S1805 : ASES
S1806 : DOLBY NR ON/OFF
S1807 : FAST FORWARD (▶▶)
S1808 : STOP (■)
S1809 : COPY
S1810 : REC STANDBY

2. 2 FM/AM TUNER MODULE

● AXQ1012 (for XR-P360/DD)


FM/AM TUNER MODULE (AXQ1012)
FM F.E.
Q6101 : RF AMP
Q6102 : MIX AMP
Q6103 : OSC
Q6104 : BUFFER AMP
Q6214 : IF AMP
<IF OUT>
<ANT>
<AGC>
<RF VT>
<OSC +B>
<MAIN +B>
<LOCAL OUT>
<OSC VT>
FM SD ADJ
AM SD ADJ
CCSCH
IC6201 : FM/AM IF DETECTION•FM STEREO DECODER
LA1836M
IC6202 : PLL IC
LM7001J
Q6204 : FM +B SW
Q6217 : FORCED MONO DRIVE
MONO
Q6203 : CONSTANT-VOLTAGE POWER SUPPLY
Q6201, Q6202 : PLL LOOP FILTER DC AMP
AM RF TUNING BLOCK
AXX1041
FM 75ohm
AM
T-meter
S-meter
TP1
VT
TP2
TP3
TP4
SCH-2
N.C.
N.C.
CE
DA
CL
R CH
GND
L CH
MONO
MUTE
TUNE
+12V
+5V
STEREO
To AF assy (3/3) CN9 (→SCH-7)
CN6201 KP200IA14L
A
B
C
D
SIGNAL ROUTE
(TA) : TUNER AUDIO SIGNAL ROUTE
(AM) : FM SIGNAL ROUTE
(FM) : AM SIGNAL ROUTE


OUT
Q6214 : IF AMP
7.2V
SCH-2
FM SD ADJ
CCSCH
IC6201 : FM/AM IF DETECTION•FM STEREO DECODER
IF+MPX
LA1836M
IC6201
N.C.
N.C.
CE
DA
CL
R CH
GND
L CH
MONO
MUTE
TUNE
+12V
+5V
STEREO
CN6201
KP200A14L
To AF assy (3/3) CN9 (→SCH-7)
AM SD ADJ
S-meter
MONO
Q6217 : FORCED MONO DRIVE
Q6203 : CONSTANT-VOLTAGE POWER SUPPLY
PLL
IC6202 : PLL IC
(TA)
(AM)
(FM)

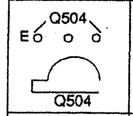
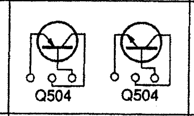
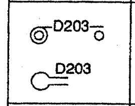
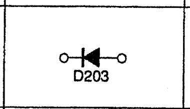
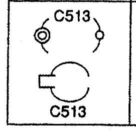
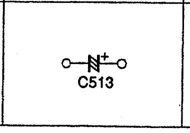
SIGNAL ROUTE
(TA) ➡ : TUNER AUDIO SIGNAL ROUTE
(AM) ➡ : FM SIGNAL ROUTE
(FM) ➡ : AM SIGNAL ROUTE

FM/AM TUNER MODULE
(AXQ1012: XR-P360/DD)

SCH-2

NOTE FOR PCB DIAGRAMS:

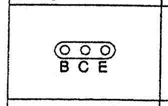
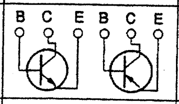
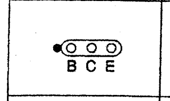
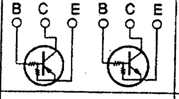
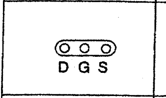
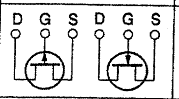
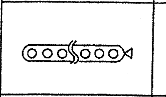
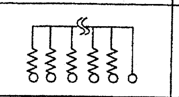
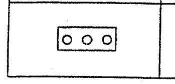
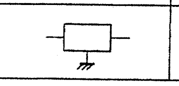
1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
		Transistor
		Diode
		Capacitor (Polarized)

3. The transistor terminal marked with E or ⊏ shows the emitter.
4. The diode terminal marked with ◎ or ⊂ shows cathode side.
5. The capacitor terminal marked with ◎ or ⊏ shows negative terminal.

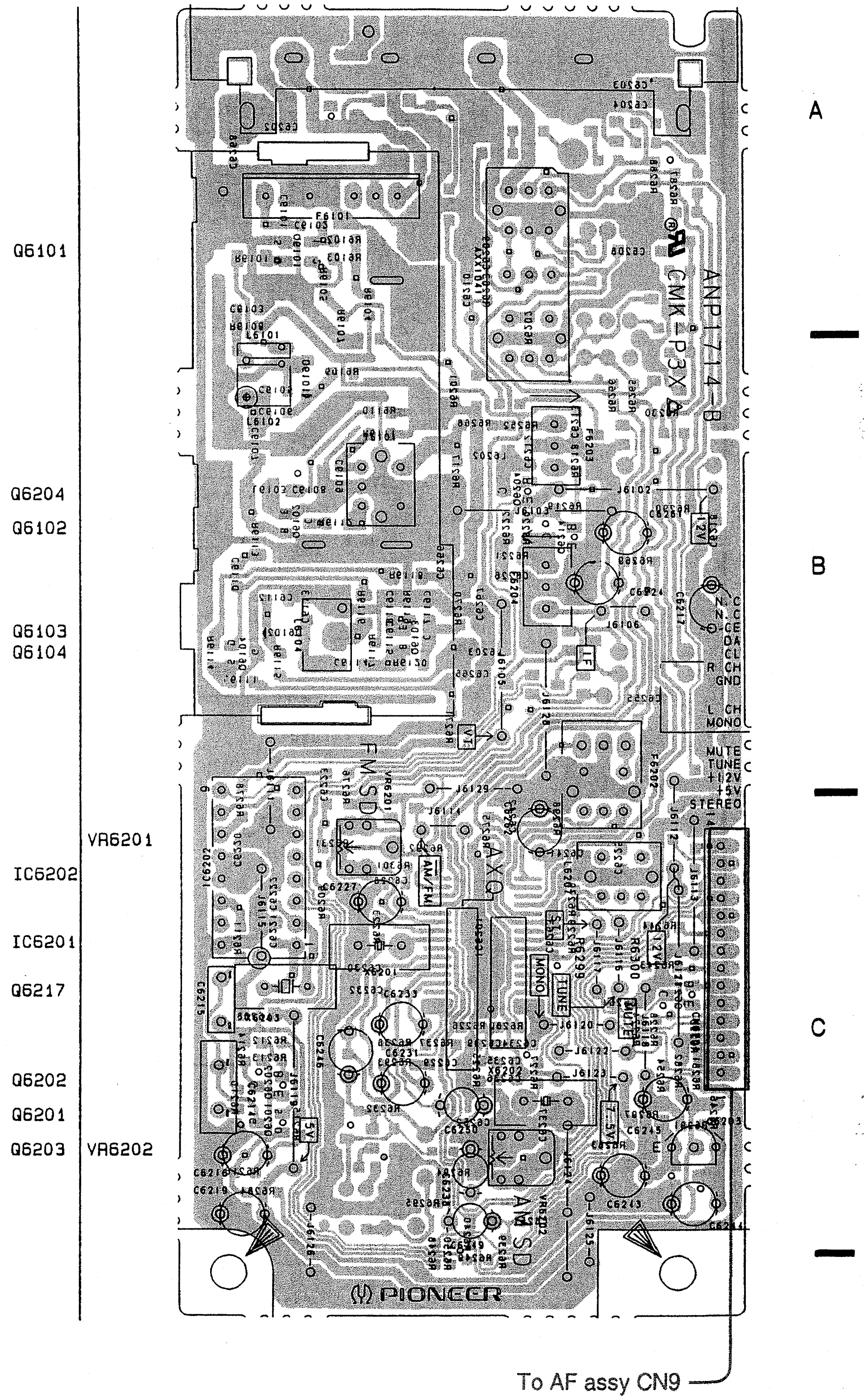
NOTE FOR PCB DIAGRAMS:

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3- terminal regulator

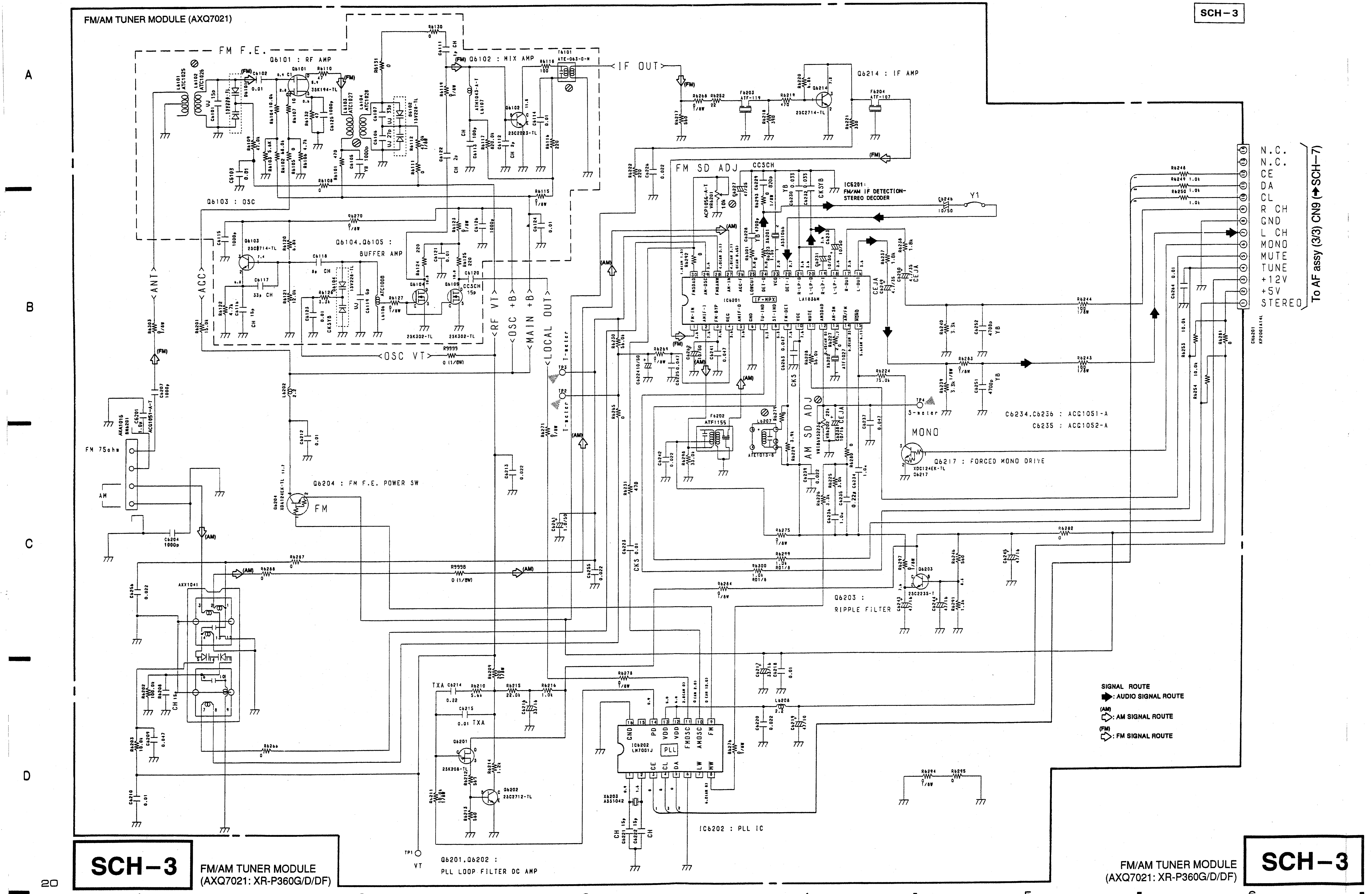
PCB-1

FM/AM TUNER MODULE


Q6101
Q6204
Q6102
Q6103
Q6104
VR6201
IC6202
IC6201
Q6217
Q6202
Q6201
Q6203
VR6202
ANP1714-B
CMK-P3X
FM SD
AM SD
AM/FM
MONO
TUNE
MUTE
N.C.
N.C.
CE
DA
CL
R CH
GND
L CH
MONO
MUTE
TUNE
+12V
+5V
STEREO
PIONEER
To AF assy CN9

- This diagram is viewed from the mounted parts side.

● AXQ7021 (for XR-P360G/D/DF)

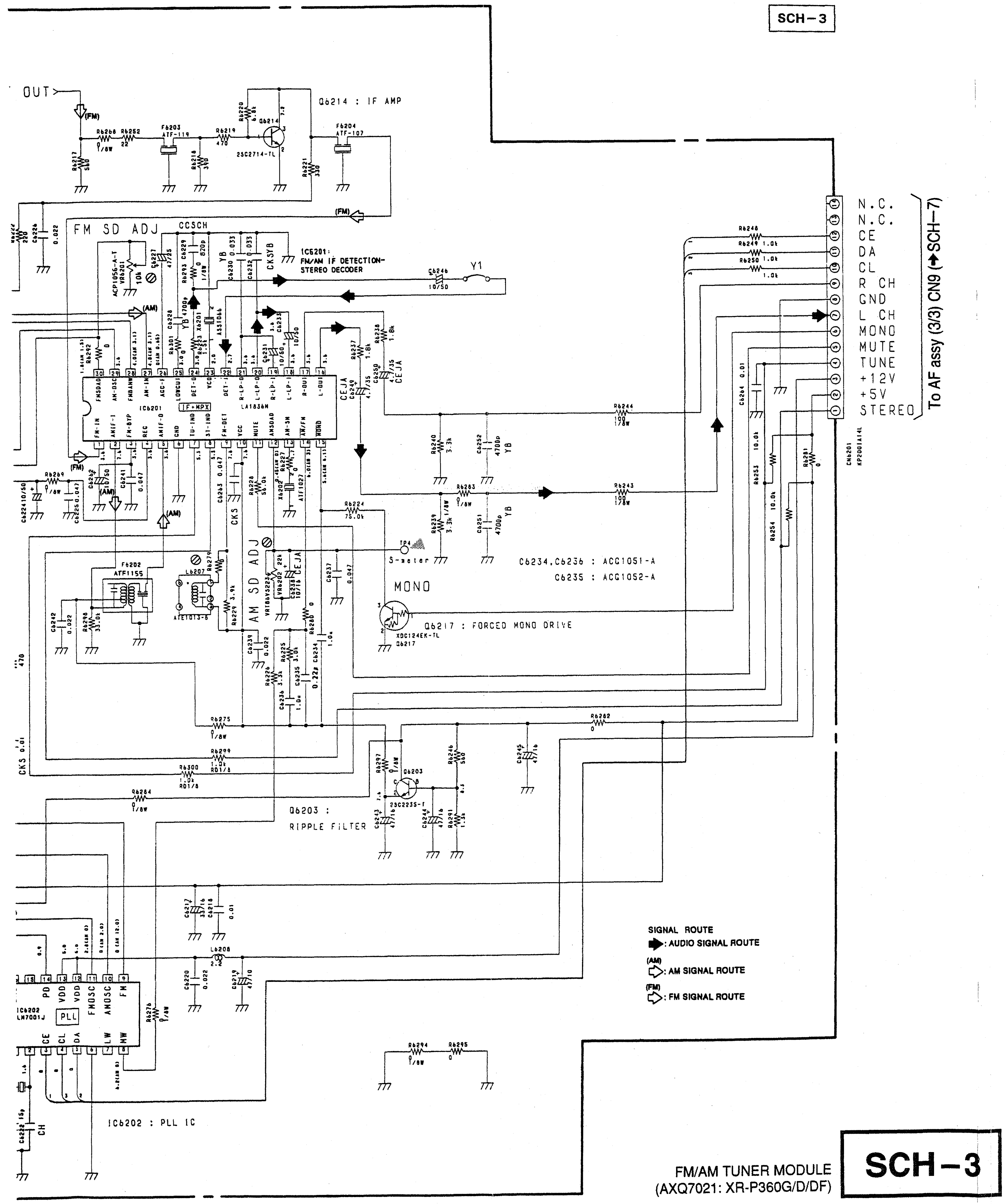

SCH-3
FM/AM TUNER MODULE (AXQ7021)
FM F.E.
Q6101 : RF AMP
3SK194-TL
Q6102 : MIX AMP
2SC2223-TL
IF OUT
Q6103 : OSC
2SC2714-TL
Q6104,Q6105 : BUFFER AMP
2SK302-TL
ANT
ACC
RF VT
OSC +B
MAIN +B
LOCAL OUT
OSC VT
Q6214 : IF AMP
2SC2714-TL
FM SD ADJ
CCSCH
IC6201 : FM/AM IF DETECTION-STEREO DECODER
LA1836M
Y1
AM SD ADJ
T-meter
S-meter
MONO
Q6217 : FORCED MONO DRIVE
XDC124EK-TL
C6234,C6236 : ACG1051-A
C6235 : ACG1052-A
Q6204 : FM F.E. POWER SW
FM
FM 75ohm
AM
AXX1041
Q6203 : RIPPLE FILTER
2SC2235-T
TXA
Q6201
2SK208-TL
Q6202
2SC2712-TL
IC6202 : PLL IC
LM7001J
PLL
GND PD VDD VDD FMOSC AMOSC FM
CE CL DA LW MW
Q6201,Q6202 : PLL LOOP FILTER DC AMP
TP1 VT
N.C.
N.C.
CE
DA
CL
R CH
GND
L CH
MONO
MUTE
TUNE
+12V
+5V
STEREO
To AF assy (3/3) CN9 (→SCH-7)
CN6201 KP200IA14L
SIGNAL ROUTE
➡ : AUDIO SIGNAL ROUTE
(AM) ⇨ : AM SIGNAL ROUTE
(FM) ⇨ : FM SIGNAL ROUTE
1
2
3
4
5
6
A
B
C
D

SCH-3

FM/AM TUNER MODULE
(AXQ7021: XR-P360G/D/DF)

FM/AM TUNER MODULE
(AXQ7021: XR-P360G/D/DF)

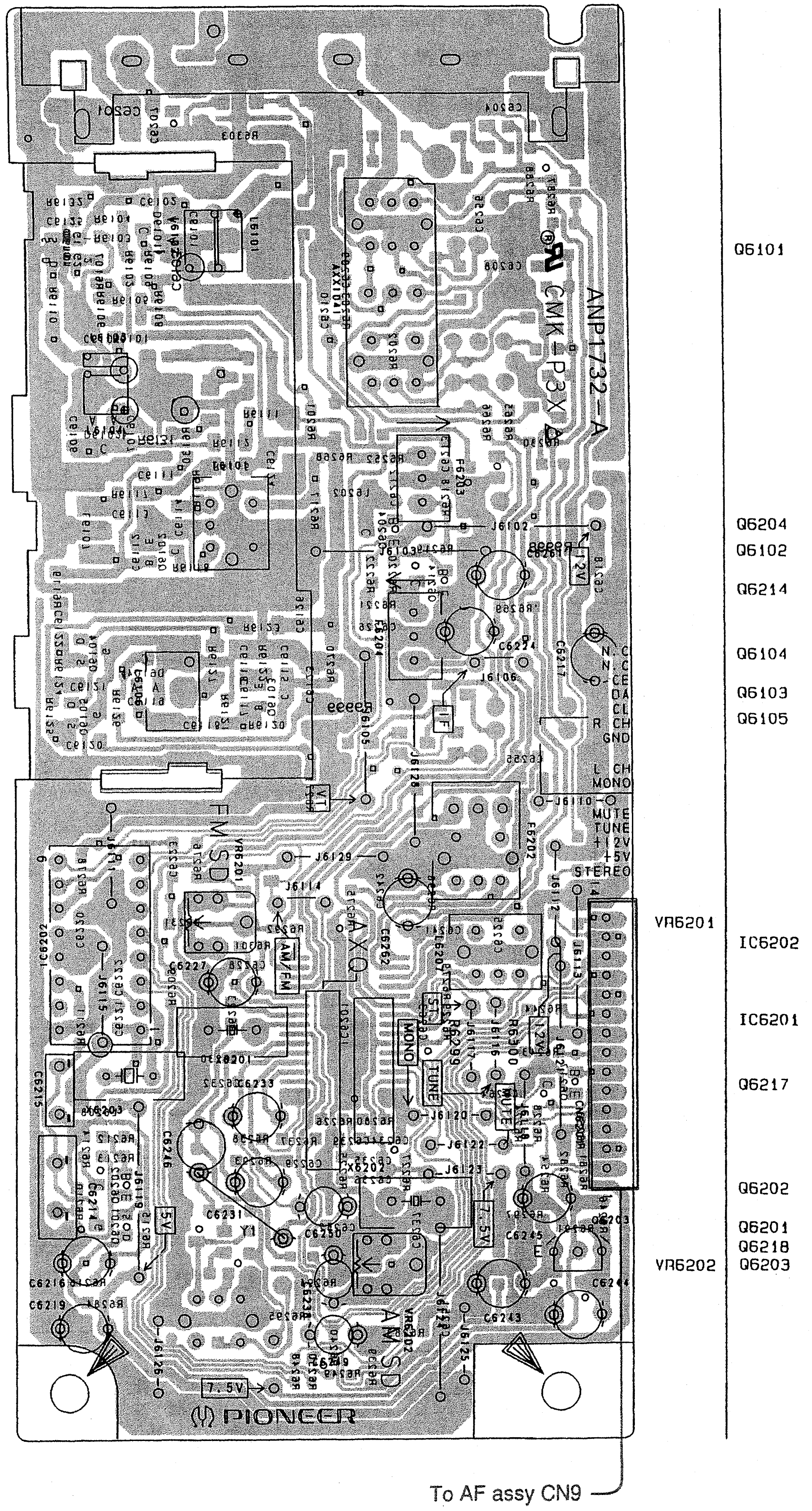
SCH-3


SCH-3
OUT
Q6214 : IF AMP
2SC2714-TL
F6203 ATF-119
F6204 ATF-107
FM SD ADJ
IC6201: FM/AM IF DETECTION- STEREO DECODER
IC6201
LA1836M
IF+MPX
Y1
N.C.
N.C.
CE
DA
CL
R CH
GND
L CH
MONO
MUTE
TUNE
+12V
+5V
STEREO
To AF assy (3/3) CN9 (→SCH-7)
CN6201 KP200141HL
CEJA
C6234,C6236 : ACG1051-A
C6235 : ACG1052-A
AM SD ADJ
MONO
Q6217 : FORCED MONO DRIVE
XDC124EK-TL
F6202 ATF1155
S-meter
Q6203 : RIPPLE FILTER
2SC2235-Y
IC6202 : PLL IC
IC6202 LM7001J
PLL
PD VDD FMOSC AMOSC FM
CE CL DA LW MW
SIGNAL ROUTE
: AUDIO SIGNAL ROUTE
(AM) : AM SIGNAL ROUTE
(FM) : FM SIGNAL ROUTE

FM/AM TUNER MODULE
(AXQ7021: XR-P360G/D/DF)

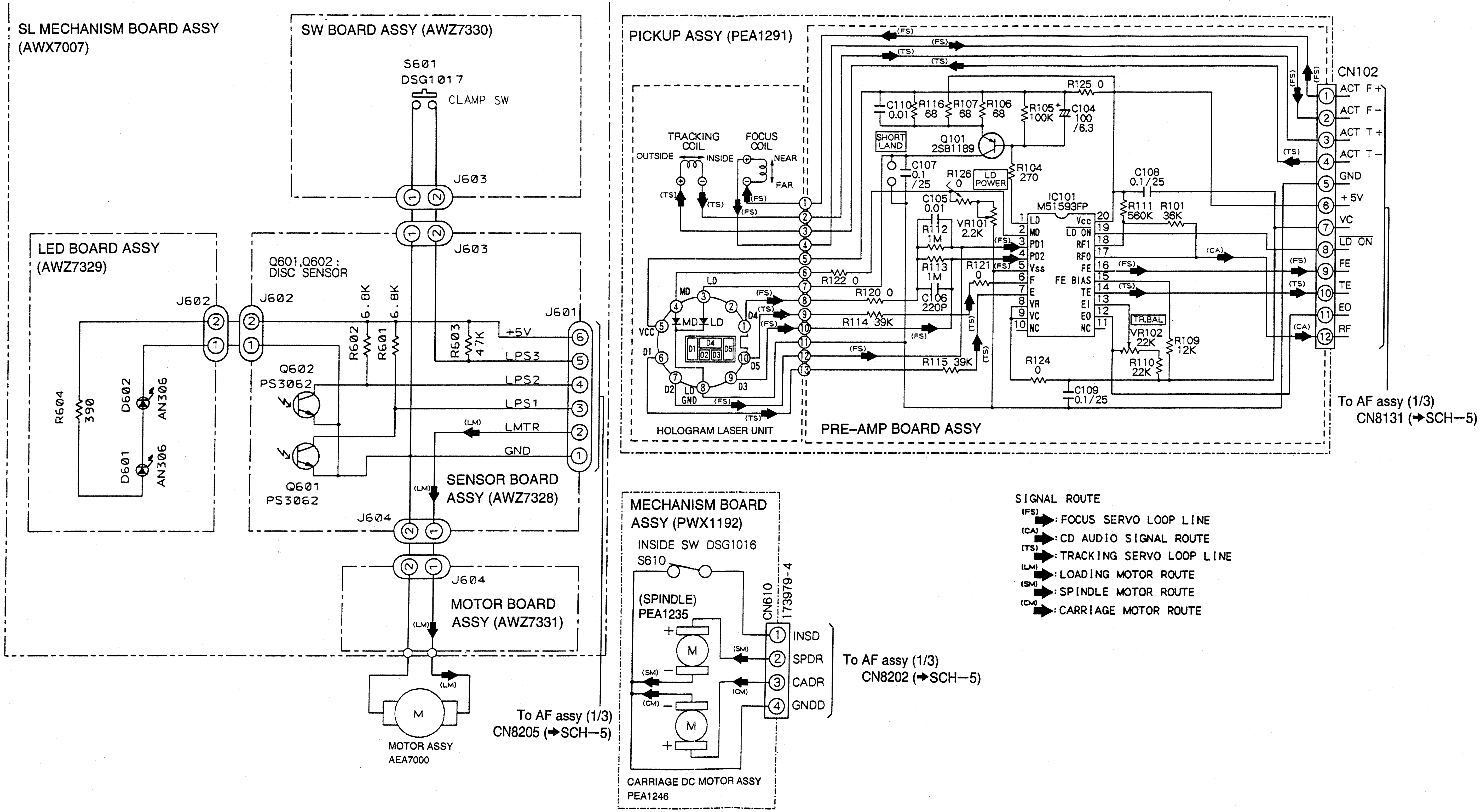
SCH-3

FM/AM TUNER MODULE


ANP1732-A
CMK-P3X
AXQ
PIONEER
FM SD
AM SD
AM/FM
MONO
TUNE
MUTE
7.5V
5V
12V
N.C
N.C
CE
DA
CL
R CH
GND
L CH
MONO
MUTE
TUNE
+12V
+5V
STEREO
Q6101
Q6204
Q6102
Q6214
Q6104
Q6103
Q6105
VR6201
IC6202
IC6201
Q6217
Q6202
Q6201
Q6218
VR6202
Q6203
To AF assy CN9

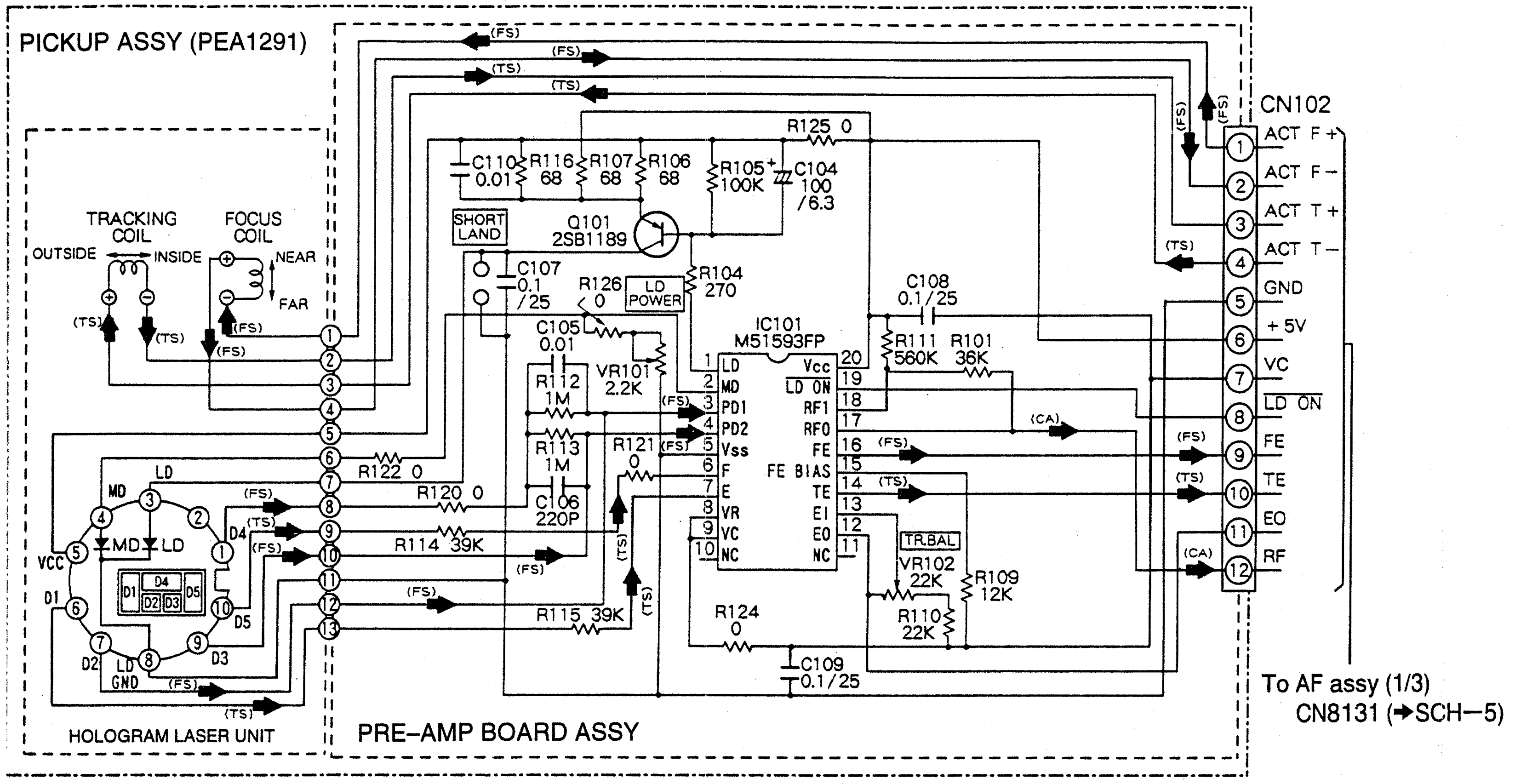
- This diagram is viewed from the mounted parts side.

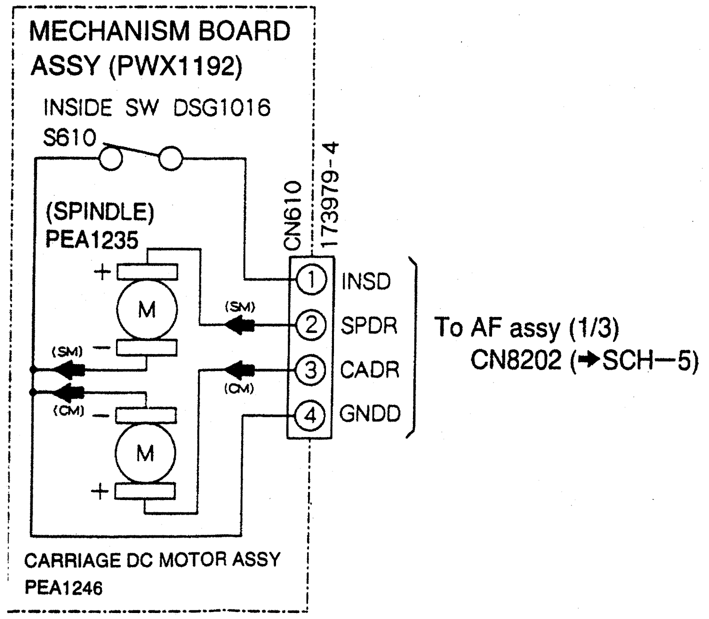
2. 3 LED BOARD ASSY, SW BOARD ASSY, SENSOR BOARD ASSY, MOTOR BOARD ASSY, MECHANISM BOARD ASSY AND PICKUP ASSY


SL MECHANISM BOARD ASSY (AWX7007)
SW BOARD ASSY (AWZ7330)
S601
DSG1017
CLAMP SW
J603
LED BOARD ASSY (AWZ7329)
J602
R604 390
D602 AN306
D601 AN306
Q601,Q602 : DISC SENSOR
Q602 PS3062
Q601 PS3062
R602 6.8K
R601 6.8K
R603 47K
J601
+5V
LPS3
LPS2
LPS1
LMTR
GND
(LM)
SENSOR BOARD ASSY (AWZ7328)
J604
MOTOR BOARD ASSY (AWZ7331)
M
MOTOR ASSY AEA7000
To AF assy (1/3) CN8205 (➔SCH−5)
PICKUP ASSY (PEA1291)
TRACKING COIL
FOCUS COIL
OUTSIDE
INSIDE
NEAR
FAR
(FS)
(TS)
MD
LD
VCC
D1
D2
D3
D4
D5
LD GND
HOLOGRAM LASER UNIT
PRE−AMP BOARD ASSY
C110 0.01
R116 68
R107 68
R106 68
R105 100K
C104 100 /6.3
R125 0
SHORT LAND
Q101 2SB1189
C107 0.1 /25
R126 0
LD POWER
R104 270
C105 0.01
VR101 2.2K
R112 1M
R113 1M
C106 220P
R121 0
R122 0
R120 0
R114 39K
R115 39K
IC101 M51593FP
LD
MD
PD1
PD2
Vss
F
E
VR
VC
NC
Vcc
LD ON
RF1
RFO
FE
FE BIAS
TE
EI
EO
NC
C108 0.1/25
R111 560K
R101 36K
TR.BAL
VR102 22K
R109 12K
R110 22K
R124 0
C109 0.1/25
(CA)
CN102
ACT F+
ACT F−
ACT T+
ACT T−
GND
+5V
VC
LD ON
FE
TE
EO
RF
To AF assy (1/3) CN8131 (➔SCH−5)
MECHANISM BOARD ASSY (PWX1192)
INSIDE SW DSG1016
S610
(SPINDLE) PEA1235
(SM)
(CM)
CARRIAGE DC MOTOR ASSY PEA1246
CN610 173979-4
INSD
SPDR
CADR
GNDD
To AF assy (1/3) CN8202 (➔SCH−5)
SIGNAL ROUTE
(FS) : FOCUS SERVO LOOP LINE
(CA) : CD AUDIO SIGNAL ROUTE
(TS) : TRACKING SERVO LOOP LINE
(LM) : LOADING MOTOR ROUTE
(SM) : SPINDLE MOTOR ROUTE
(CM) : CARRIAGE MOTOR ROUTE

MOTOR

SCH-4


PICKUP ASSY (PEA1291)
TRACKING COIL
FOCUS COIL
OUTSIDE
INSIDE
NEAR
FAR
HOLOGRAM LASER UNIT
PRE-AMP BOARD ASSY
SHORT LAND
Q101 2SB1189
C110 0.01
R116 68
R107 68
R106 68
R105 100K
C104 100 /6.3
R125 0
C107 0.1 /25
R126 0
LD POWER
R104 270
C105 0.01
VR101 2.2K
R112 1M
R113 1M
C106 220P
R121 0
R122 0
R120 0
R114 39K
R115 39K
IC101 M51593FP
LD
MD
PD1
PD2
Vss
F
E
VR
VC
NC
Vcc
LD ON
RF1
RFO
FE
FE BIAS
TE
EI
EO
NC
C108 0.1/25
R111 560K
R101 36K
TR.BAL
VR102 22K
R109 12K
R110 22K
R124 0
C109 0.1/25
CN102
ACT F+
ACT F−
ACT T+
ACT T−
GND
+5V
VC
LD ON
FE
TE
EO
RF
(FS)
(TS)
(CA)
To AF assy (1/3) CN8131 (→SCH−5)


MECHANISM BOARD ASSY (PWX1192)
INSIDE SW DSG1016
S610
(SPINDLE) PEA1235
CN610 173979-4
INSD
SPDR
CADR
GNDD
(SM)
(CM)
CARRIAGE DC MOTOR ASSY PEA1246
To AF assy (1/3) CN8202 (→SCH−5)

SIGNAL ROUTE

(FS) ➡: FOCUS SERVO LOOP LINE

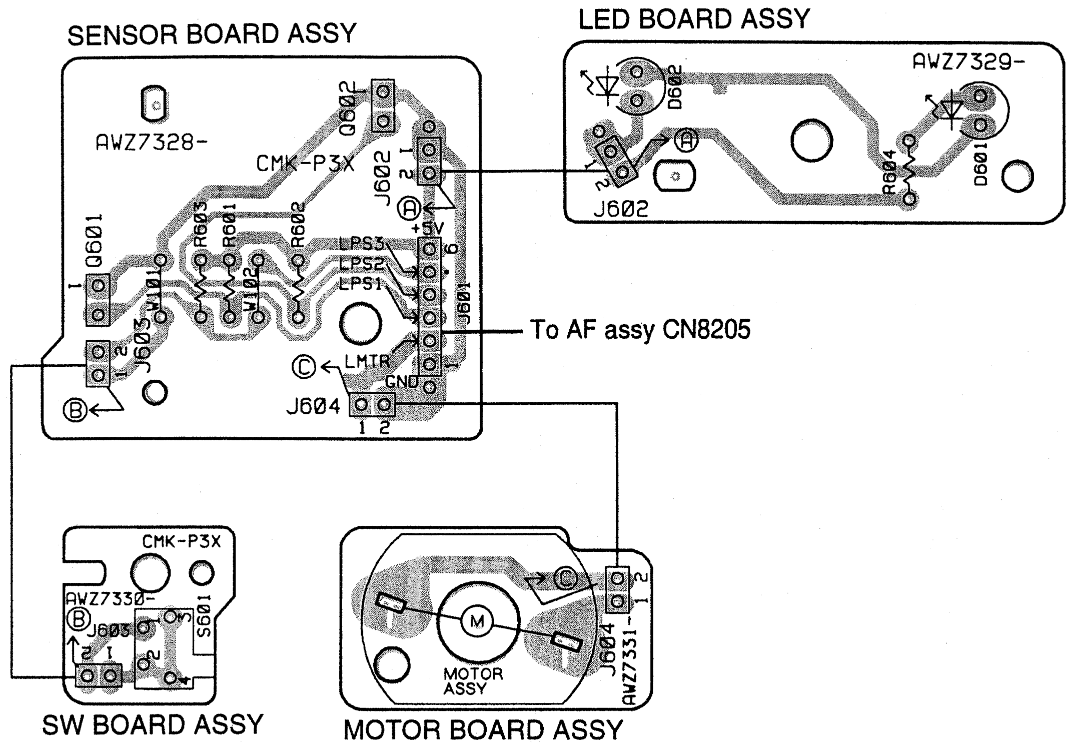
(CA) ➡: CD AUDIO SIGNAL ROUTE

(TS) ➡: TRACKING SERVO LOOP LINE

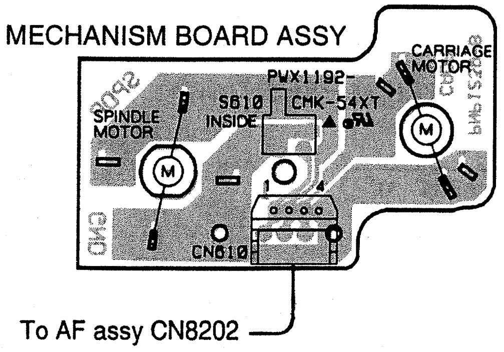
(LM) ➡: LOADING MOTOR ROUTE

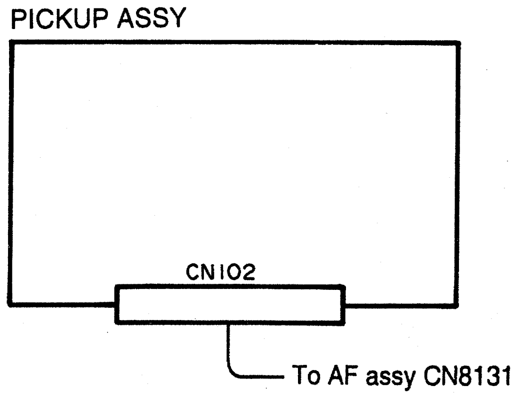
(SM) ➡: SPINDLE MOTOR ROUTE

(CM) ➡: CARRIAGE MOTOR ROUTE


SENSOR BOARD ASSY
AWZ7328-
CMK-P3X
Q602
Q601
J602
J603
J604
J601
R603
R601
R602
W101
W102
LPS3
LPS2
LPS1
+5V
LMTR
GND
To AF assy CN8205
LED BOARD ASSY
AWZ7329-
D602
D601
R604
J602
SW BOARD ASSY
CMK-P3X
AWZ7330-
J603
S601
MOTOR BOARD ASSY
MOTOR ASSY
J604
AWZ7331-

- This diagram is viewed from the mounted parts side.


MECHANISM BOARD ASSY
SPINDLE MOTOR
CARRIAGE MOTOR
PWX1192-
S610 INSIDE
CMK-54XT
CN610
To AF assy CN8202

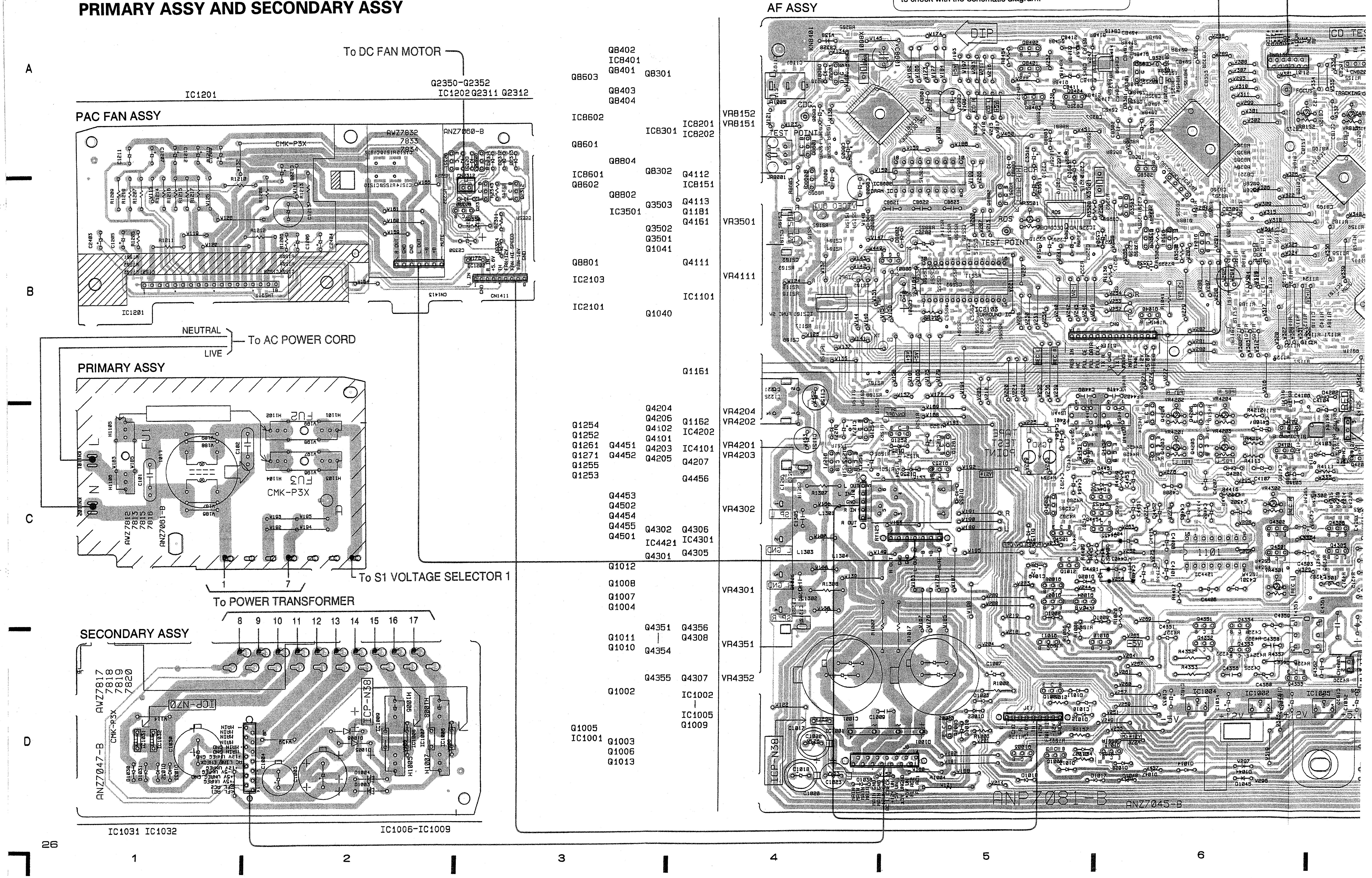

PICKUP ASSY
CN102
To AF assy CN8131

LED BOARD ASSY, SW BOARD ASSY,
SENSOR BOARD ASSY, MOTOR BOARD ASSY,
MECHANISM BOARD ASSY AND PICKUP ASSY

2. 4 AF ASSY, MECHANISM UNIT, VR ASSY, H.P. ASSY, PAC FAN ASSY, PRIMARY ASSY AND SECONDARY ASSY

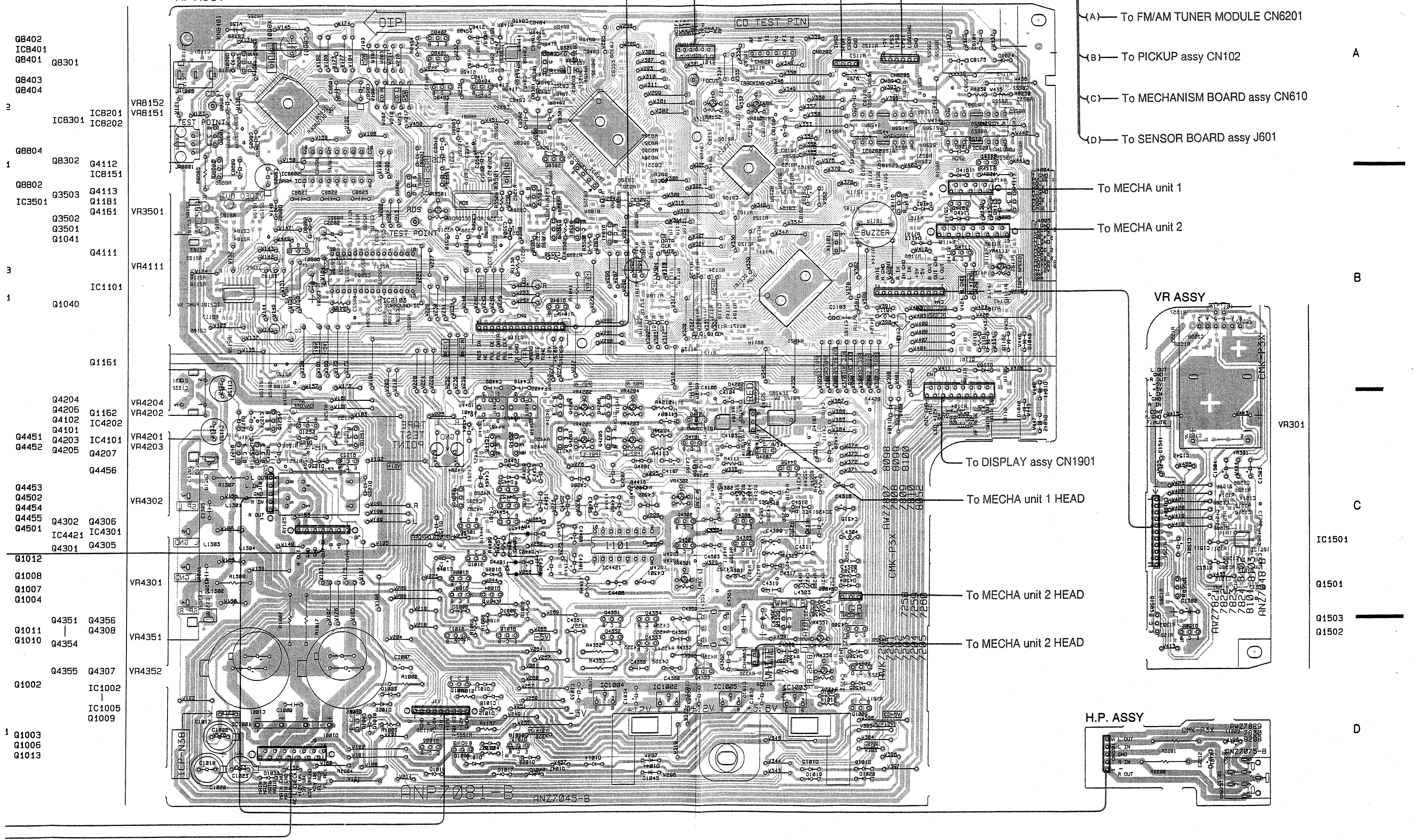
- This diagram is viewed from the mounted parts side.

The parts mounted on this PCB include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagram.


1
2
3
4
5
6
A
B
C
D
To DC FAN MOTOR
Q2350-Q2352
IC1201
IC1202 Q2311 Q2312
PAC FAN ASSY
AWZ7832
7833
7834
ANZ7060-B
CMK-P3X
IC1201
NEUTRAL
LIVE
To AC POWER CORD
PRIMARY ASSY
FU1
FU2
FU3
CMK-P3X
AWZ7812
7813
7815
7816
ANZ7081-B
1
7
To S1 VOLTAGE SELECTOR 1
To POWER TRANSFORMER
8 9 10 11 12 13 14 15 16 17
SECONDARY ASSY
AWZ7817
7818
7819
7820
CMK-P3X
ICP-N70
ICP-N38
ANZ7047-B
IC1031 IC1032
IC1006-IC1009
Q8402 IC8401 Q8401 Q8403 Q8404
Q8603
Q8301
IC8602
IC8201 IC8202
IC8301
Q8601
Q8804
IC8601 Q8602
Q8302
Q4112 IC8151
Q8802
IC3501
Q3503
Q4113 Q1181 Q4161
Q3502 Q3501 Q1041
Q8801
Q4111
IC2103
IC1101
IC2101
Q1040
Q1161
Q4204 Q4206 Q4102 Q4101 Q4203 Q4205
Q1162 IC4202 IC4101 Q4207
Q1254 Q1252 Q1261 Q1271 Q1255 Q1253
Q4451 Q4452
Q4456
Q4453 Q4502 Q4454 Q4455 Q4501
Q4302 IC4421
Q4306 IC4301
Q4301
Q4305
Q1012
Q1008
Q1007 Q1004
Q1011 Q1010
Q4351 | Q4354
Q4356 Q4308
Q4355
Q4307
Q1002
IC1002 | IC1005 Q1009
Q1005 IC1001
Q1003 Q1006 Q1013
VR8152 VR8151
VR3501
VR4111
VR4204 VR4202
VR4201 VR4203
VR4302
VR4301
VR4351
VR4352
AF ASSY
A
B
DIP
CDG
TEST POINT
VIDEO OUT
RDS
TEST POINT
FOCUS
TRACKING
CD TE
SURROUND
TEST POINT
GND
L OUT
L IN
GND
R IN
R OUT
L GND
+12V
+5V
-5V
ICP-N38
ANP7081-B
ANZ7045-B

- This diagram is viewed from the mounted parts side.

The parts mounted on this PCB include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagram.

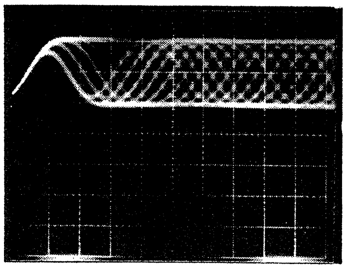

4
5
6
7
8
9
A
B
C
D
AF ASSY
VR ASSY
H.P. ASSY
To FM/AM TUNER MODULE CN6201
To PICKUP assy CN102
To MECHANISM BOARD assy CN610
To SENSOR BOARD assy J601
To MECHA unit 1
To MECHA unit 2
To DISPLAY assy CN1901
To MECHA unit 1 HEAD
To MECHA unit 2 HEAD
To MECHA unit 2 HEAD
CD TEST PIN
TEST POINT
BUZZER
ANP7081-B
ANZ7045-B
CMK-P3X
Q8402
IC8401
Q8401
Q8403
Q8404
Q8804
Q8802
IC3501
Q8301
IC8301
Q8302
Q3503
Q3502
Q3501
Q1041
Q1040
IC8201
IC8202
Q4112
IC8151
Q4113
Q1181
Q4161
Q4111
IC1101
Q1161
VR8152
VR8151
VR3501
VR4111
Q4204
Q4206
Q4102
Q4101
Q4203
Q4205
Q1162
IC4202
IC4101
Q4207
Q4456
VR4204
VR4202
VR4201
VR4203
VR4302
Q4451
Q4452
Q4453
Q4502
Q4454
Q4455
Q4501
Q4302
IC4421
Q4301
Q4306
IC4301
Q4305
Q1012
Q1008
Q1007
Q1004
Q1011
Q1010
Q1002
Q1003
Q1006
Q1013
Q4351
|
Q4354
Q4355
Q4356
Q4308
Q4307
IC1002
|
IC1005
Q1009
VR4301
VR4351
VR4352
VR301
IC1501
Q1501
Q1503
Q1502
4
5
6
7
8
9

Waveforms

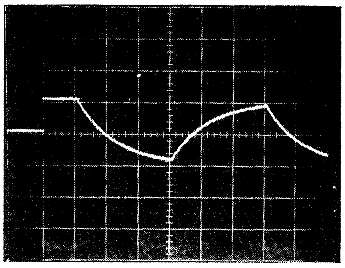
Note: The encircled numbers denote measuring point in the schematic disgram.

*2 FOCUS: Press the key without loading a disc.

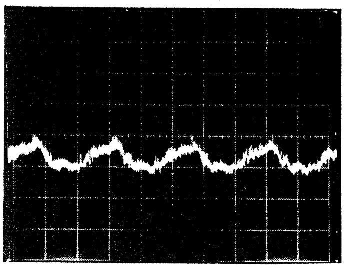
② TP1-Pin1: PLAY MODE (RF)
500mV/div 500nsec/div



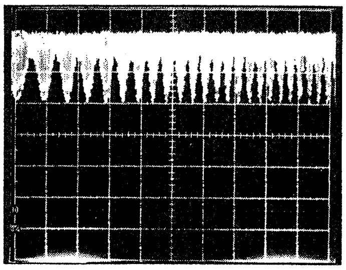
⑤ IC8202-Pin3: FOCUS-IN (*2) MODE (FODR)
1V/div 200msec/div



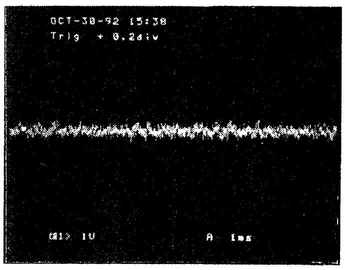
⑦ IC8201-Pin3: PLAY MODE (SPDR)
1V/div 50msec/div



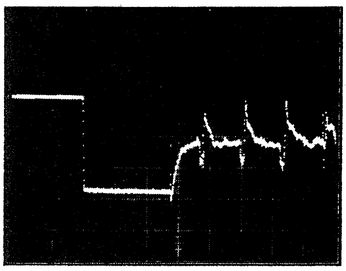
② TP1-Pin1: TRACK SEARCH MODE (RF)
500mV/div 200μsec/div



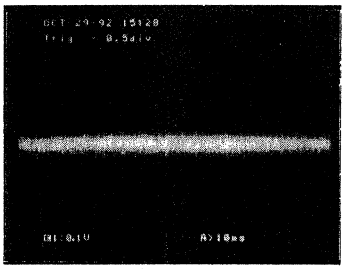
⑤ IC8202-Pin3: PLAY MODE (FODR)
1V/div 1msec/div



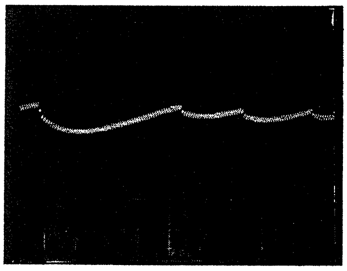
⑦ IC8201-Pin3: TRACK SEARCH MODE (SPDR)
2V/div 50msec/div



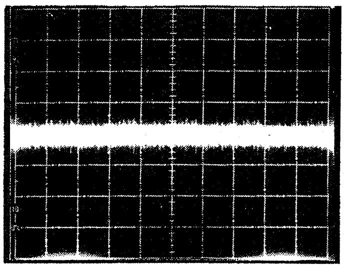
③ TP1-Pin6: PLAY MODE (FOER)
100mV/div 10msec/div



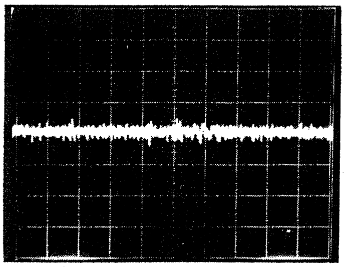
⑧ IC8202-Pin9: PLAY MODE (CADR)
0.2V/div 2sec/div



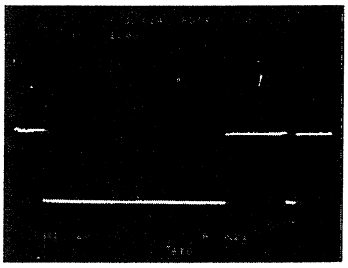
④ TP1-Pin2: PLAY MODE (TRER)
1V/div 1msec/div



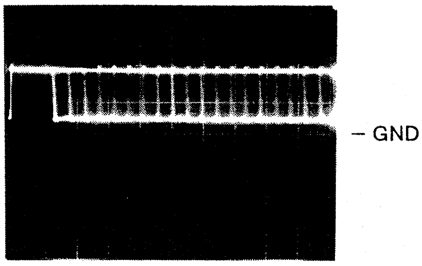
⑥ IC8202-Pin4: PLAY MODE (TRDR)
500mV/div 1msec/div



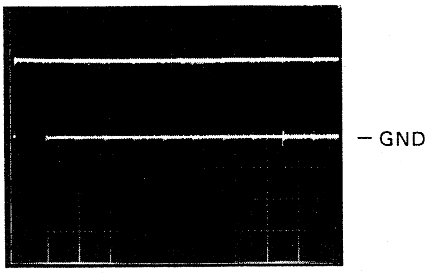
⑧ IC8202-Pin9: TRACK SEARCH MODE (CADR)
2V/div 200msec/div



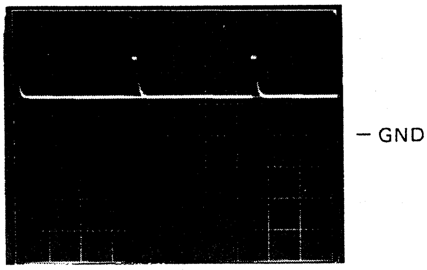
⑨ IC8151-Pin32: PLAY MODE (EFM)
2V/div 500nsec/div



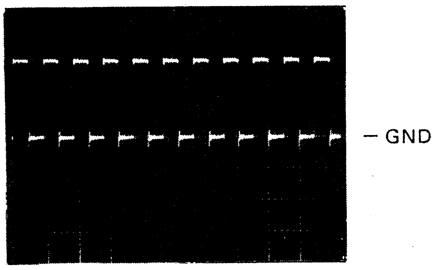
⑲ IC8301-Pin44: PLAY MODE (1kHz)
(PCMD)
2V/div 500nsec/div



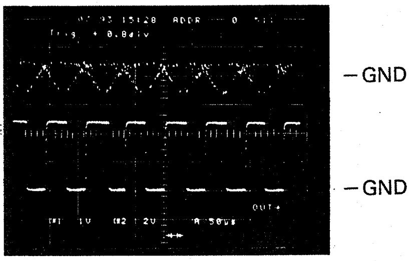
㉝ IC8301-Pin25: PLAY MODE (MDP)
2V/div 2μsec/div



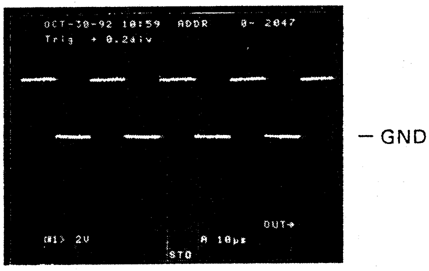
⑯ IC8301-Pin46: PLAY MODE (1kHz)
(BCK)
2V/div 500nsec/div



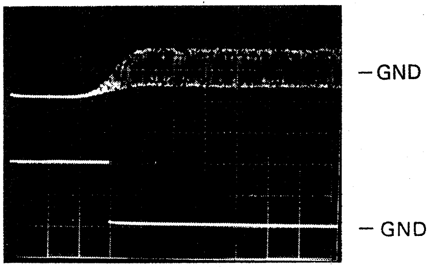
㉓ : TRACK SEARCH MODE
Upper: TP1-Pin1 (RF) 1V/div
Lower: IC8151-Pin26 (C. OUT)
2V/div 50μsec/div



⑱ IC8301-Pin42: PLAY MODE (1kHz)
(LRCK)
2V/div 10μsec/div



㉔ : PLAY MODE
Upper: TP1-Pin1 (RF) 1V/div
Lower: IC8151-Pin30 (DFCT)
5V/div 200μsec/div

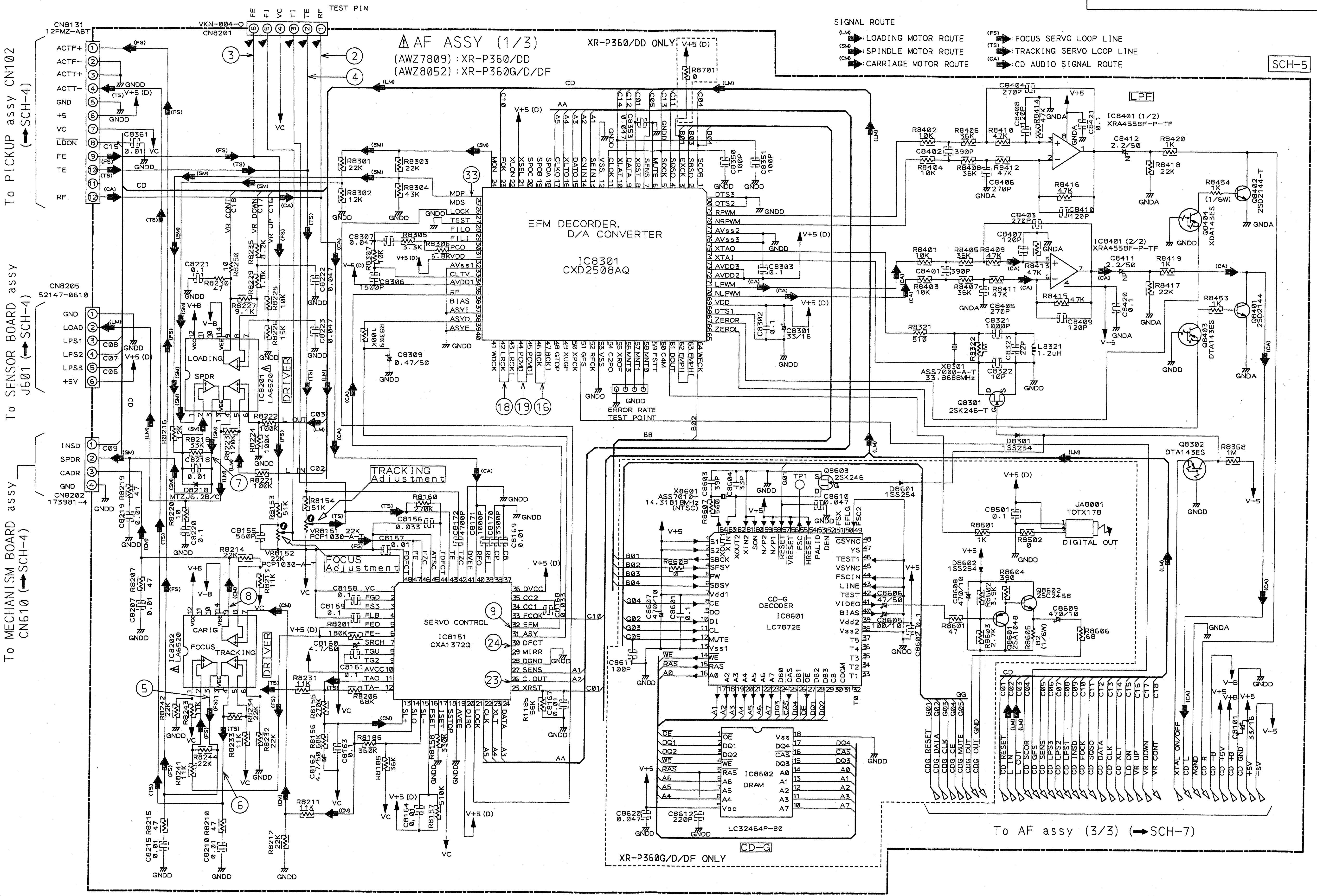


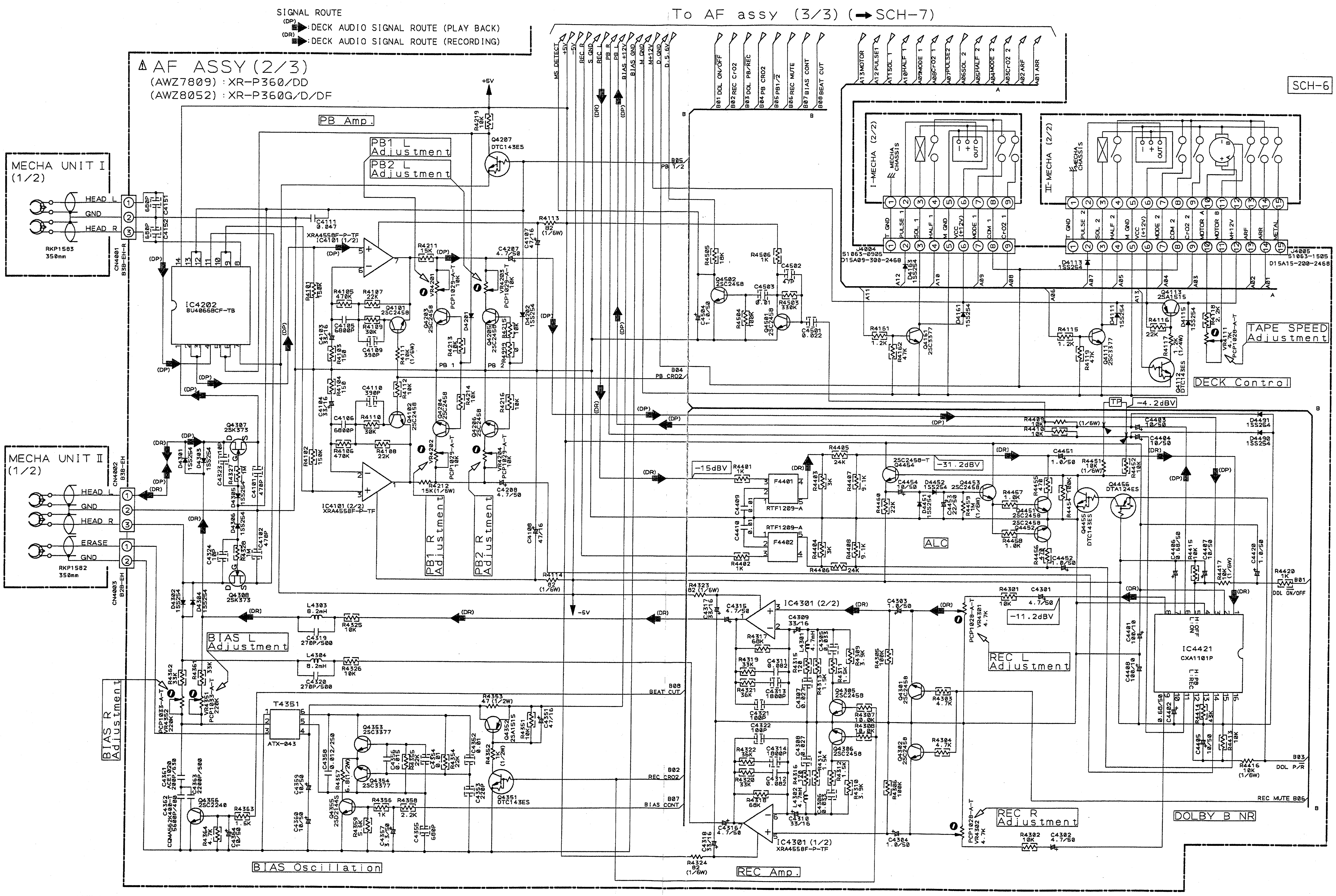
IC8151 (CXA1372Q)

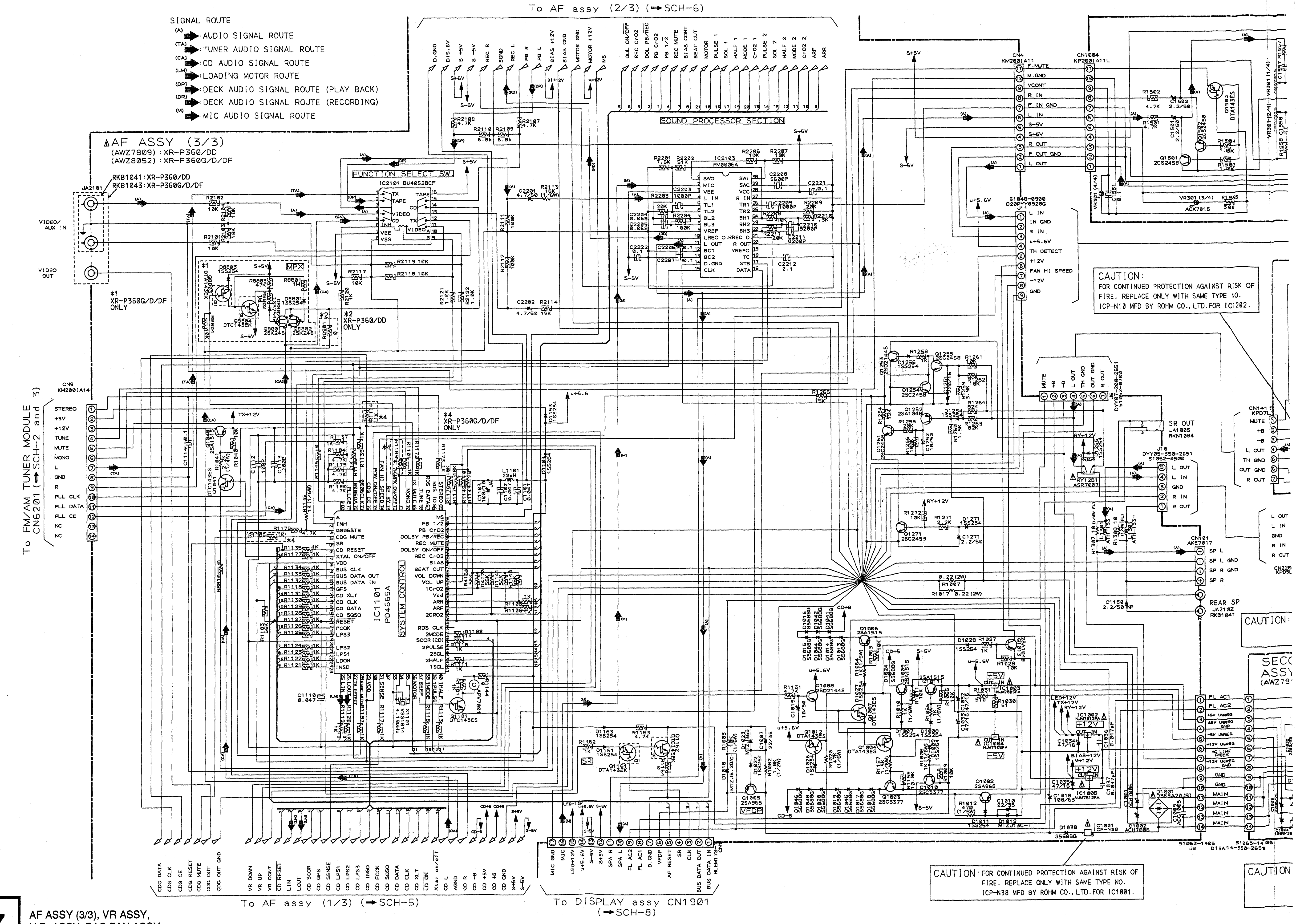
Pin No.	Voltage [V]	Pin No.	Voltage [V]	Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	2.5	13	2.5	25	5.0	37	2.0
2	2.5	14	2.5 to 2.6	26	0.1	38	2.7 to 2.8
3	2.5	15	2.5	27	4.9	39	2.5
4	2.5	16	0.8	28	0	40	3.2
5	2.4	17	1.3	29	0	41	0
6	2.5	18	2.5	30	0	42	2.5
7	2.6	19	0	31	0	43	2.5
8	2.5	20	5.0	32	2.7	44	2.5
9	2.5	21	5.0	33	5.0	45	2.5
10	5.0	22	4.9	34	1.3	46	2.5
11	2.5	23	5.0	35	1.0	47	2.5
12	2.5	24	4.9 to 5.0	36	5.0	48	2.4

IC8301 (CXD2508AQ)

Pin No.	Voltage [V]	Pin No.	Voltage [V]	Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	0.1	21	5.0	41	2.4	61	2.0
2	0.1	22	0	42	2.4	62	0
3	5.0	23	5.0	43	2.4	63	0
4	0.1	24	5.0	44	2.4	64	2.5
5	4.9	25	2.6 to 2.7	45	2.4	65	0
6	0	26	0.1	46	1.8	66	0
7	2.2 to 2.5	27	5.0	47	1.8	67	0
8	5.0	28	0	48	0	68	5.0
9	4.9	29	2.7	49	4.9	69	2.5
10	5.0	30	2.6	50	1.2	70	2.5
11	4.9	31	2.6	51	4.9	71	5.0
12	0	32	5.0	52	2.5	72	5.0
13	4.9	33	0	53	0	73	2.4
14	0.1	34	2.7	54	0	74	2.4
15	4.9 to 5.0	35	5.0	55	4.9	75	0
16	5.0	36	2.7	56	4.5	76	0
17	4.9	37	0	57	0	77	2.5
18	0	38	0	58	0 to 0.3	78	2.5
19	0	39	2.5	59	2.8	79	0
20	0	40	0	60	1.4	80	0


AF ASSY (1/3)
(AWZ7809) : XR-P360/DD
(AWZ8052) : XR-P360G/D/DF
XR-P360/DD ONLY
SIGNAL ROUTE
LOADING MOTOR ROUTE
SPINDLE MOTOR ROUTE
CARRIAGE MOTOR ROUTE
FOCUS SERVO LOOP LINE
TRACKING SERVO LOOP LINE
CD AUDIO SIGNAL ROUTE
SCH-5
TEST PIN
VKN-004-O CN8201
FE FI VC TI TE RF
CN8131 12FMZ-ABT
ACTF+ ACTF- ACTT+ ACTT- GND +5 VC LDON FE TE RF
To PICKUP assy CN102 (→SCH-4)
CN8205 52147-0610
GND LOAD LPS1 LPS2 LPS3 +5V
To SENSOR BOARD assy J601 (→SCH-4)
INSD SPDR CADR GND
CN8202 173981-4
To MECHANISM BOARD assy CN610 (→SCH-4)
EFM DECORDER, D/A CONVERTER
IC8301 CXD2508AQ
SERVO CONTROL
IC8151 CXA1372Q
IC8201 LA6520 DRIVER
LOADING SPDR
IC8202 LA6520 DRIVER
CARIG FOCUS TRACKING
TRACKING Adjustment
FOCUS Adjustment
VR8151 PCP1030-A
VR8152 PCP1030-A-T
LPF
IC8401 (1/2) XRA4558F-P-TF
IC8401 (2/2) XRA4558F-P-TF
X8301 ASS7000-A-T 33.8688MHz
Q8301 2SK246-T
D8301 1SS254
Q8302 DTA143ES
Q8401 2SD2144
Q8402 2SD2144-T
Q8403 DTA143ES
Q8404 XDA143ES
CD-G DECODER IC8601 LC7872E
X8601 ASS7010-A 14.31818MHz (NTSC)
Q8603 2SK246
D8601 1SS254
JA8001 TOTX178
DIGITAL OUT
D8602 1SS254
Q8602 2SC2458
Q8601 2SA1048
IC8602 DRAM LC32464P-80
ERROR RATE TEST POINT
CD-G
XR-P360G/D/DF ONLY
To AF assy (3/3) (→SCH-7)
CDG RESET CDG DATA CDG CLK CDG CE CDG OUT GND
CD RESET L IN L OUT CD SCOR CD GFS CD SENS CD LPS3 CD LPS2 CD LPS1 CD INSD CD FOCK CD SQSO CD DATA CD CLK CD XLT LD ON VR UP VR DOWN VR CONT
XTAL ON/OFF CD L AGND CD R CD -B CD +5V CD +B GND +5V -5V


SIGNAL ROUTE
(DP): DECK AUDIO SIGNAL ROUTE (PLAY BACK)
(DR): DECK AUDIO SIGNAL ROUTE (RECORDING)
To AF assy (3/3) (→SCH-7)
SCH-6
A
B
C
D
AF ASSY (2/3)
(AWZ7809) : XR-P360/DD
(AWZ8052) : XR-P360G/D/DF
PB Amp.
PB1 L Adjustment
PB2 L Adjustment
PB1 R Adjustment
PB2 R Adjustment
MECHA UNIT I (1/2)
MECHA UNIT II (1/2)
HEAD L
GND
HEAD R
ERASE
RKP1583 350mm
RKP1582 350mm
CN4001 B3B-EH-R
CN4002 B3B-EH
CN4003 B2B-EH
IC4202 BU4066BCF-TB
IC4101 (1/2) XRA4558F-P-TF
IC4101 (2/2) XRA4558F-P-TF
Q4207 DTC143ES
Q4307 2SK373
Q4308 2SK373
Q4101 2SC2458
Q4102 2SC2458
+5V
-5V
MS DETECT
REC R
S.GND
REC L
PB R
PB L
BIAS +12V
BIAS GND
M GND
M+12V
D GND
D 5.6V
B01 DOL ON/OFF
B02 REC CrO2
B03 DOL PB/REC
B04 PB CrO2
B05 PB1/2
B06 REC MUTE
B07 BIAS CONT
B08 BEAT CUT
A13 MOTOR
A12 PULSE1
A11 SOL 1
A10 HALF 1
A09 MODE 1
A08 CrO2 1
A07 PULSE2
A06 SOL 2
A05 HALF 2
A04 MODE 2
A03 CrO2 2
A02 ARF
A01 ARR
I-MECHA (2/2)
II-MECHA (2/2)
MECHA CHASSIS
T GND
PULSE 1
SOL 1
HALF 1
M GND
VCC (+12V)
MODE 1
COM 1
CrO2 1
PULSE 2
SOL 2
HALF 2
MODE 2
COM 2
CrO2 2
MOTOR A
MOTOR B
M+12V
ARF
ARR
METAL
J4004 51065-0905 D15A09-300-2468
J4005 51063-1505 D15A15-200-2468
Q4113 2SA1515
Q4111 2SC3377
Q4112 DTC143ES
TAPE SPEED Adjustment
VR4111 4.7K PCP1028-A-T
DECK Control
TP
-4.2dBV
-15dBV
-31.2dBV
-11.2dBV
F4401 RTF1209-A
F4402 RTF1209-A
ALC
Q4456 DTA124ES
Q4455 DTC143ES
IC4421 CXA1101P
DOLBY B NR
DOL ON/OFF
DOL P/R
REC MUTE
IC4301 (2/2)
IC4301 (1/2) XRA4558F-P-TF
REC L Adjustment
REC R Adjustment
REC Amp.
BIAS L Adjustment
BIAS R Adjustment
T4351 ATX-043
L4303 8.2mH
L4304 8.2mH
Q4353 2SC3377
Q4354 2SC3377
Q4355 2SD2144S
Q4356 2SC2240
Q4351 DTC143ES
Q4352 2SA1515
BEAT CUT
REC CrO2
BIAS CONT
BIAS Oscillation

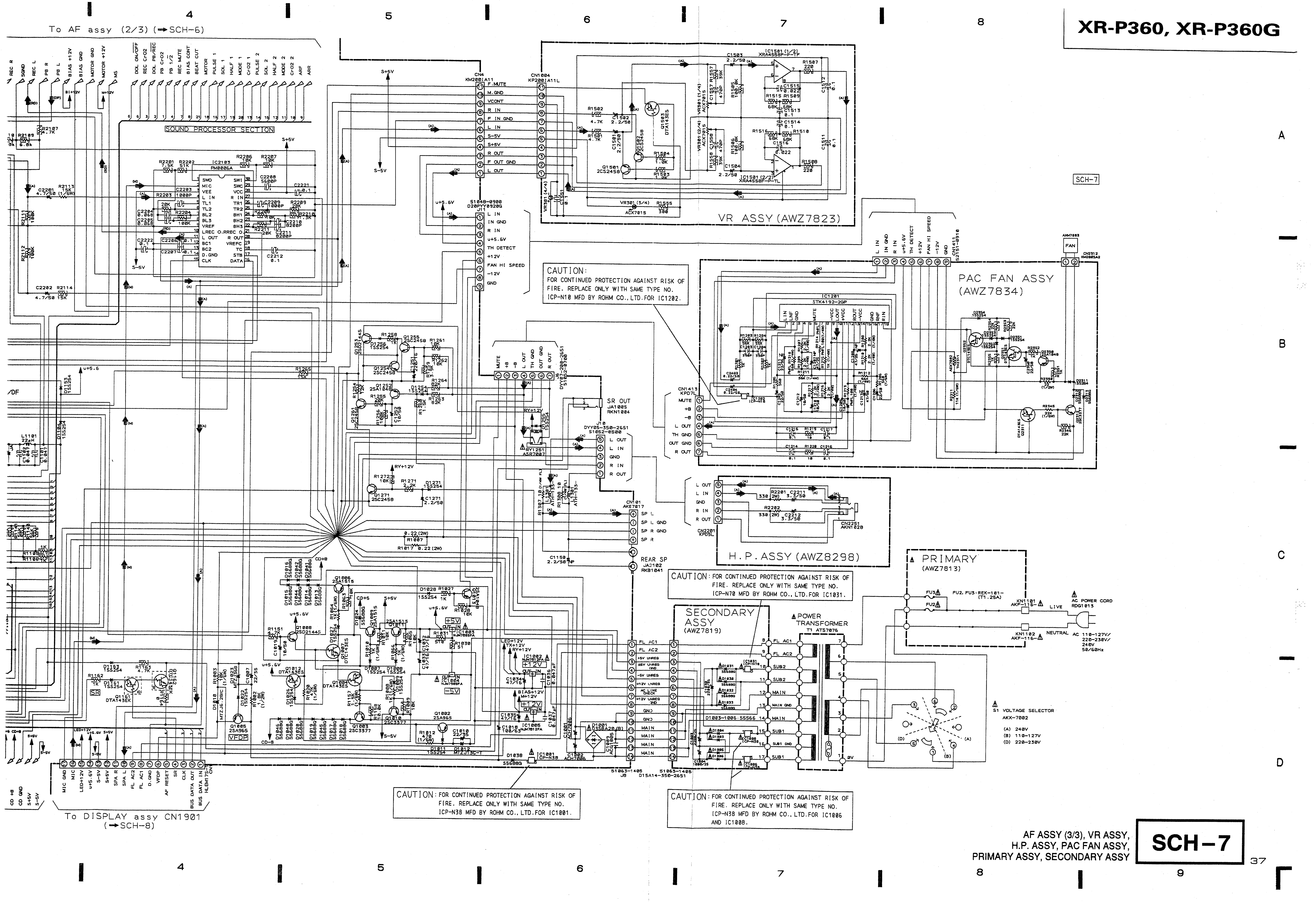

To AF assy (2/3) (➡SCH-6)
SIGNAL ROUTE
(A) AUDIO SIGNAL ROUTE
(TA) TUNER AUDIO SIGNAL ROUTE
(CA) CD AUDIO SIGNAL ROUTE
(LM) LOADING MOTOR ROUTE
(DP) DECK AUDIO SIGNAL ROUTE (PLAY BACK)
(DR) DECK AUDIO SIGNAL ROUTE (RECORDING)
(M) MIC AUDIO SIGNAL ROUTE
⚠AF ASSY (3/3)
(AWZ7809) : XR-P360/DD
(AWZ8052) : XR-P360G/D/DF
RKB1041 : XR-P360/DD
RKB1043 : XR-P360G/D/DF
VIDEO/AUX IN
VIDEO OUT
FUNCTION SELECT SW.
IC2101 BU4052BCF
SOUND PROCESSOR SECTION
IC2103 PM0006A
MPX
*1 XR-P360G/D/DF ONLY
*2 XR-P360/DD ONLY
*4 XR-P360G/D/DF ONLY
IC1101 PD4665A SYSTEM CONTROL
To FM/AM TUNER MODULE CN6201 (➡SCH-2 and 3)
CN9 KM200IA14
CN4 KM200IA11
CN1004 KP200IA11L
J11 51048-0900
SR OUT
REAR SP
VFDP
To AF assy (1/3) (➡SCH-5)
To DISPLAY assy CN1901 (➡SCH-8)
SECO ASSY (AWZ78

CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. ICP-N10 MFD BY ROHM CO., LTD. FOR IC1202.

CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. ICP-N38 MFD BY ROHM CO., LTD. FOR IC1001.

SCH-7

AF ASSY (3/3), VR ASSY,
H.P. ASSY, PAC FAN ASSY,
PRIMARY ASSY, SECONDARY ASSY


To AF assy (2/3) (→SCH-6)
SOUND PROCESSOR SECTION
IC2103 PM0006A
CN4 KM200IA11
CN1004 KP200IA11L
VR ASSY (AWZ7823)
IC1501 XRA4558F-P-TF
SCH-7
PAC FAN ASSY (AWZ7834)
IC1201 STK4192-2GP
FAN
CN1413 KPD7L
SR OUT JA1005 RKN1004
J10 DYY05-350-2651
CN101 AKE7017
SP L
SP L GND
SP R GND
SP R
REAR SP JA2102 RKB1041
H.P. ASSY (AWZ8298)
CN2201 KPD5L
CN2251 AKN1028
PRIMARY (AWZ7813)
FU2, FU3: REK-101-(T1.25A)
KN1101 AKF-116-
KN1102 AKF-116-
LIVE
NEUTRAL
AC POWER CORD RDG1013
AC 110-127V/ 220-230V/ 240V 50/60Hz
SECONDARY ASSY (AWZ7819)
POWER TRANSFORMER T1 ATS7076
S1 VOLTAGE SELECTOR AKX-7002
(A) 240V
(B) 110-127V
(D) 220-230V
+5V
-5V
+12V
IC1002 NJM7812FA
IC1004 NJM7905FA
IC1005 NJM7812FA
IC1003 NJM7805FA
J8
51063-1405
D15A14-350-2651
To DISPLAY assy CN1901 (→SCH-8)
VFDP
SR

CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. ICP-N10 MFD BY ROHM CO., LTD.FOR IC1202.

CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. ICP-N70 MFD BY ROHM CO., LTD. FOR IC1031.

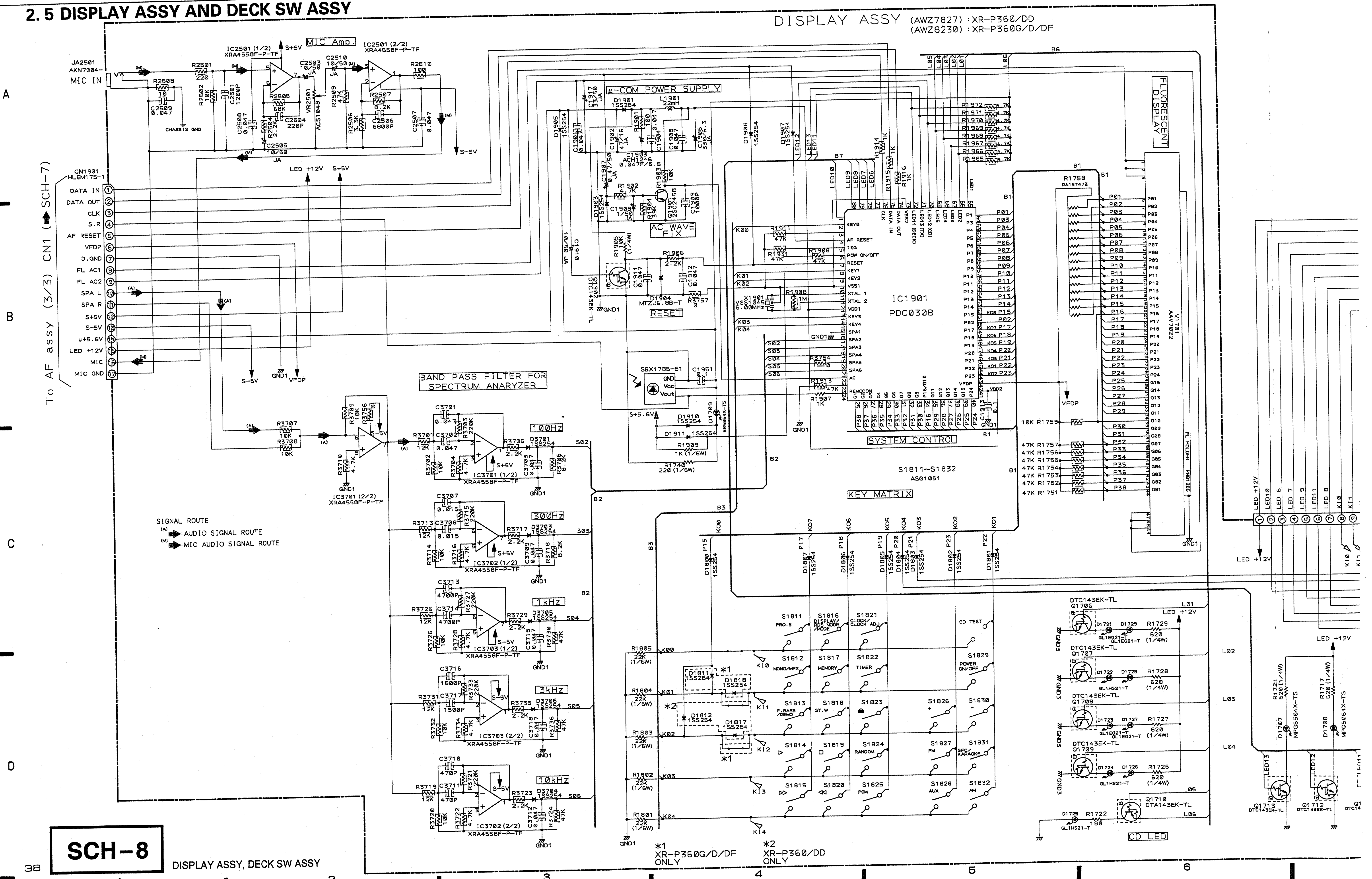
CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. ICP-N38 MFD BY ROHM CO., LTD. FOR IC1001.

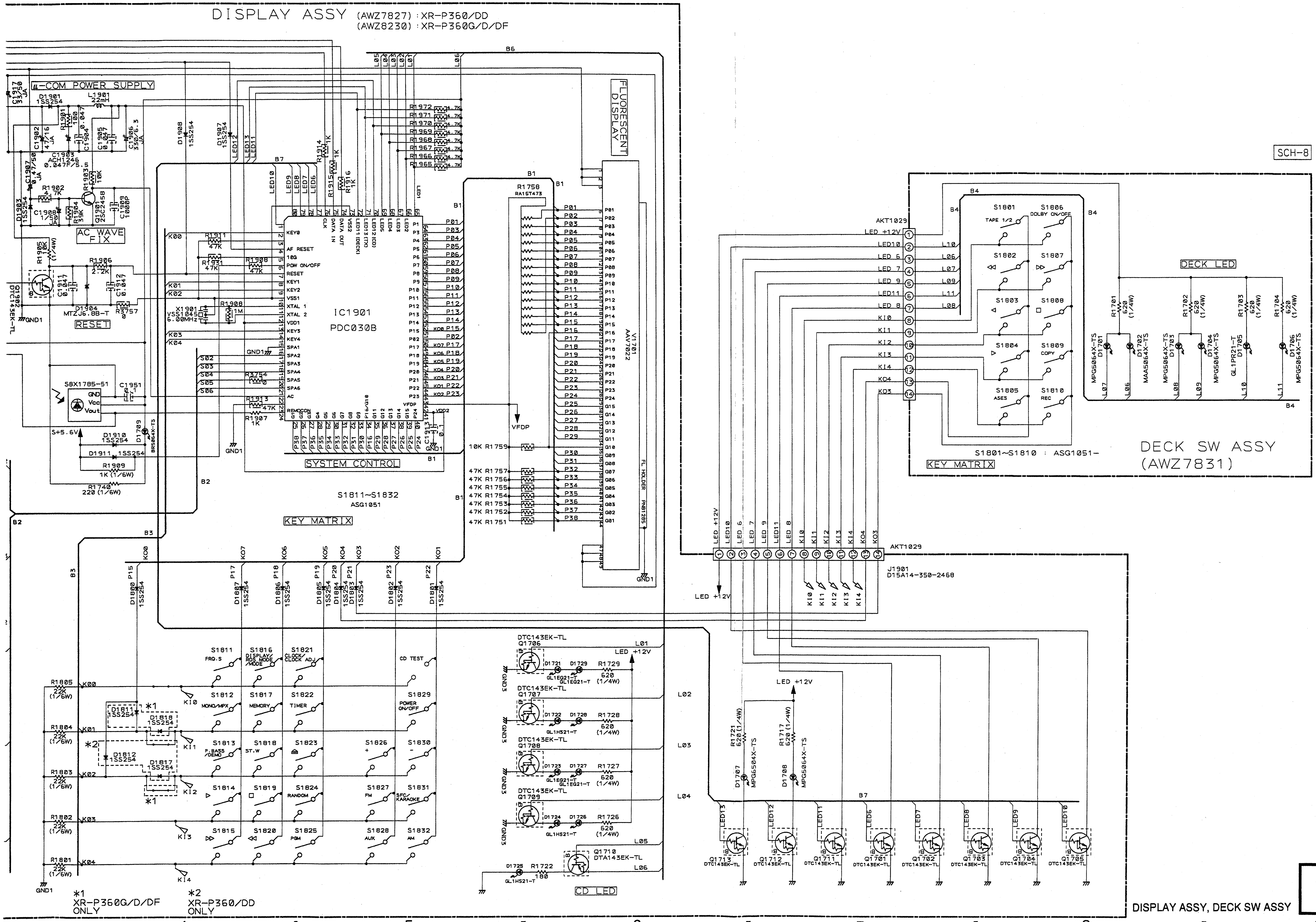
CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. ICP-N38 MFD BY ROHM CO., LTD. FOR IC1006 AND IC1008.

AF ASSY (3/3), VR ASSY,
H.P. ASSY, PAC FAN ASSY,
PRIMARY ASSY, SECONDARY ASSY

SCH-7

2. 5 DISPLAY ASSY AND DECK SW ASSY


DISPLAY ASSY (AWZ7827) : XR-P360/DD
(AWZ8230) : XR-P360G/D/DF
MIC Amp.
IC2501 (1/2) XRA4558F-P-TF
IC2501 (2/2) XRA4558F-P-TF
JA2501 AKN7004- MIC IN
CHASSIS GND
μ-COM POWER SUPPLY
AC WAVE FIX
RESET
FLUORESCENT DISPLAY
V1701 AAV7022
FL HOLDER PNB1285
IC1901 PDC030B
SYSTEM CONTROL
KEY MATRIX
S1811~S1832 ASG1051
SBX1785-51
X1901 VSS1045 6.00MHz
CN1901 HLEM17S-1
DATA IN
DATA OUT
CLK
S.R
AF RESET
VFDP
D.GND
FL AC1
FL AC2
SPA L
SPA R
S+5V
S-5V
u+5.6V
LED +12V
MIC
MIC GND
To AF assy (3/3) CN1 (→SCH-7)
BAND PASS FILTER FOR SPECTRUM ANARYZER
IC3701 (2/2) XRA4558F-P-TF
100Hz
300Hz
1kHz
3kHz
10kHz
IC3701 (1/2) XRA4558F-P-TF
IC3702 (1/2) XRA4558F-P-TF
IC3703 (1/2) XRA4558F-P-TF
IC3703 (2/2) XRA4558F-P-TF
IC3702 (2/2) XRA4558F-P-TF
SIGNAL ROUTE
(A) :AUDIO SIGNAL ROUTE
(M) :MIC AUDIO SIGNAL ROUTE
S1811 FRQ.S
S1816 DISPLAY/RDS MODE/MODE
S1821 CLOCK ADJ
CD TEST
S1812 MONO/MPX
S1817 MEMORY
S1822 TIMER
S1829 POWER ON/OFF
S1813 P.BASS/DEMO
S1818 ST.W
S1823
S1826 +
S1830 -
S1814
S1819
S1824 RANDOM
S1827 FM
S1831 SFC/KARAOKE
S1815
S1820
S1825 PGM
S1828 AUX
S1832 AM
*1 XR-P360G/D/DF ONLY
*2 XR-P360/DD ONLY
DTC143EK-TL Q1706
DTC143EK-TL Q1707
DTC143EK-TL Q1708
DTC143EK-TL Q1709
Q1710 DTA143EK-TL
CD LED
LED +12V
GND1

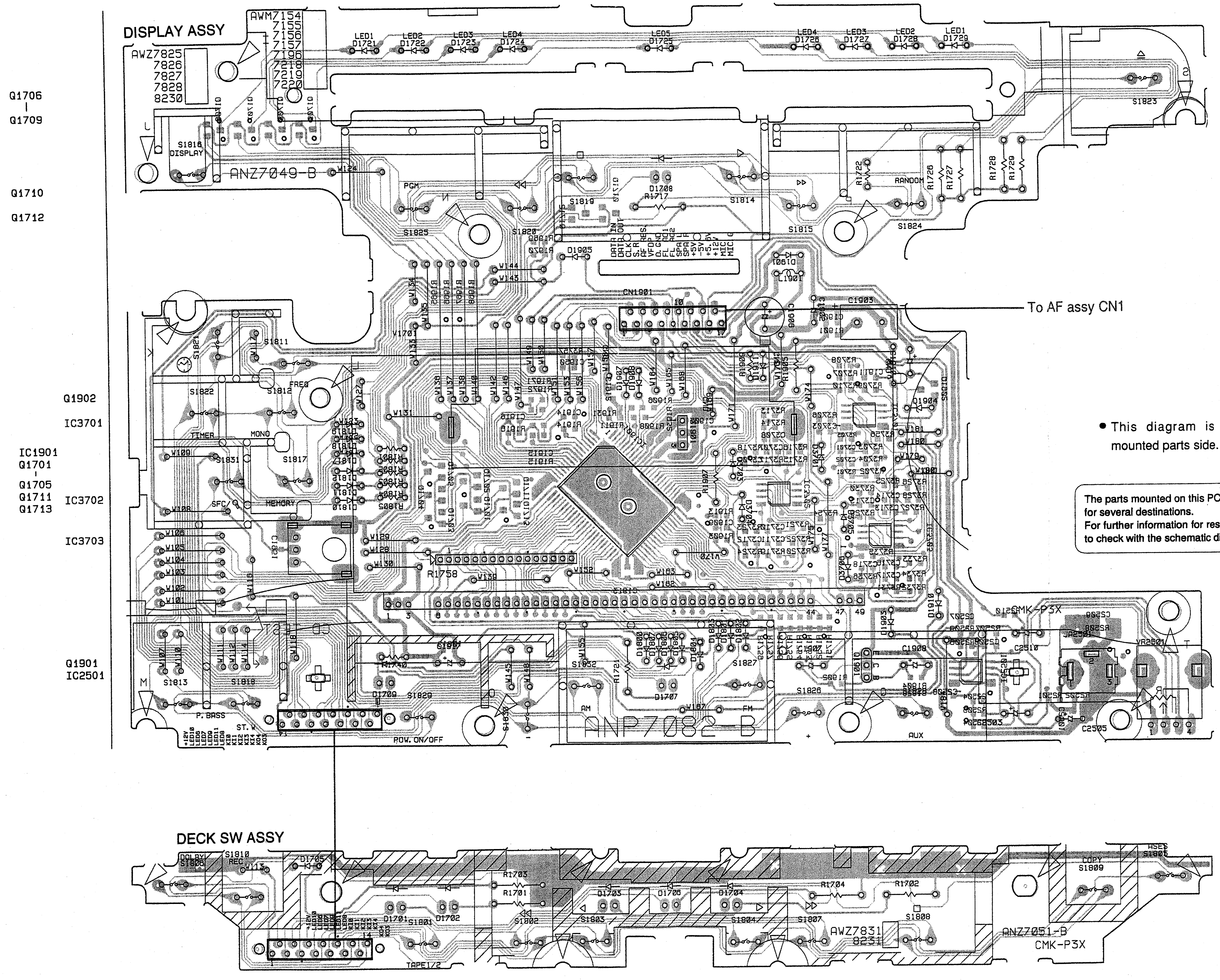

DISPLAY ASSY (AWZ7827) : XR-P360/DD
(AWZ8230) : XR-P360G/D/DF
μ-COM POWER SUPPLY
AC WAVE FIX
RESET
SYSTEM CONTROL
IC1901
PDC030B
FLUORESCENT DISPLAY
V1701
AAV7022
KEY MATRIX
S1811~S1832
ASG1051
SBX1785-51
GND
Vcc
Vout
X1901
VSS1045
6.00MHz
S+5.6V
GND1
VFDP
FL HOLDER
PNB1285
J1901
D15A14-350-2468
AKT1029
LED +12V
LED10
LED 6
LED 7
LED 9
LED11
LED 8
KI0
KI1
KI2
KI3
KI4
KO4
KO3
S1811 FRQ.S
S1816 DISPLAY/RDS MODE/MODE
S1821 CLOCK/CLOCK ADJ
CD TEST
S1812 MONO/MPX
S1817 MEMORY
S1822 TIMER
S1829 POWER ON/OFF
S1813 P.BASS/DEMO
S1818 ST.W
S1823
S1826 +
S1830 -
S1814
S1819
S1824 RANDOM
S1827 FM
S1831 SFC/KARAOKE
S1815
S1820
S1825 PGM
S1828 AUX
S1832 AM
CD LED
DTC143EK-TL
DTA143EK-TL
GL1HS21-T
GL1EG21-T
MPG5064X-TS
MAA5064X-TS
GL1PR21-T
DECK LED
DECK SW ASSY
(AWZ7831)
S1801~S1810 : ASG1051-
S1801 TAPE 1/2
S1806 DOLBY ON/OFF
S1802
S1807
S1803
S1808
S1804
S1809 COPY
S1805 ASES
S1810 REC
SCH-8
A
B
C
D

*1
XR-P360G/D/DF
ONLY

*2
XR-P360/DD
ONLY

DISPLAY ASSY, DECK SW ASSY

SCH-8


1
2
3
4
5
A
B
C
D
DISPLAY ASSY
AWM7154
7155
7156
7157
7196
7218
7219
7220
AWZ7825
7826
7827
7828
8230
Q1706
Q1709
Q1710
Q1712
Q1902
IC3701
IC1901
Q1701
Q1705
Q1711
Q1713
IC3702
IC3703
Q1901
IC2501
LED1 D1721
LED2 D1722
LED3 D1723
LED4 D1724
LED5 D1725
LED4 D1726
LED3 D1727
LED2 D1728
LED1 D1729
S1816 DISPLAY
ANZ7049-B
PGM
S1825
S1820
S1819
R1717
S1814
S1815
S1824
RANDOM
S1823
D1905
CN1901
L1901
C1903
To AF assy CN1
S1821
S1811
S1822
FREQ
S1812
TIMER
MONO
S1831
S1817
SFC
MEMORY
R1758
S1813
S1818
P.BASS
ST.W
POW.ON/OFF
S1829
S1830
S1832
D1707
AM
FM
ANP7082-B
S1827
S1826
AUX
CMK-P3X
VR2501
C2505
DECK SW ASSY
DOLBY S1806
S1810 REC
D1705
R1703
R1701
D1703
D1706
D1704
R1704
R1702
D1701
S1801
D1702
S1802
S1803
S1804
S1807
S1808
AWZ7831
8231
COPY S1809
HSES S1805
ANZ7051-B
CMK-P3X
TAPE1/2

- This diagram is viewed from the mounted parts side.

The parts mounted on this PCB include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagram.

3. PCB PARTS LIST

NOTES :

- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex. 1 *When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).*

$560\Omega \rightarrow 56 \times 10^{1} = 561$ .... *RD1/8PM*$\boxed{5}\boxed{6}\boxed{1}$*J*
$47k\Omega \rightarrow 47 \times 10^{3} = 473$ .... *RD1/4PS*$\boxed{4}\boxed{7}\boxed{3}$*J*
$0.5\Omega \rightarrow 0R5$ .... *RN2H*$\boxed{0}\boxed{R}\boxed{5}$*K*
$1\Omega \rightarrow 010$ .... *RS1P*$\boxed{0}\boxed{1}\boxed{0}$*K*

Ex. 2 *When there are 3 effective digits (such as in high precision metal film resistors).*

$5.62k\Omega \rightarrow 562 \times 10^{1} = 5621$ .... *RM1/4PC*$\boxed{5}\boxed{6}\boxed{2}\boxed{1}$*F*

■ LIST OF WHOLE PCB ASSEMBLIES

Mark	Symbol & Description	Part No.		Remarks
		XR-P360/DD	XR-P360G/D/DF	
NSP	MAIN ASSY	AWK7202	AWK7204	
⚠	├ AF ASSY	AWZ7809	AWZ8052	
	├ SECONDARY ASSY	AWZ7819	AWZ7819	
	└ VR ASSY	AWZ7823	AWZ7823	
NSP	COMPLEX ASSY	AWM7156	AWM7196	
⚠	├ PRIMARY ASSY	AWZ7813	AWZ7813	
	├ DISPLAY ASSY	AWZ7827	AWZ8230	
NSP	├ H.P.ASSY	AWZ8298	AWZ8298	
NSP	├ DECK SW ASSY	AWZ7831	AWZ7831	
	└ PAC FAN ASSY	AWZ7834	AWZ7834	
	FM/AM TUNER MODULE	AXQ1012	AXQ7021	
NSP	CD SLOT–IN MECHA	AXA7014	AXA7014	
NSP	├ SL MECHANISM BOARD ASSY	AWX7007	AWX7007	
NSP	│ ├ SENSOR BOARD ASSY	AWZ7328	AWZ7328	
NSP	│ ├ LED BOARD ASSY	AWZ7329	AWZ7329	
NSP	│ ├ SW BOARD ASSY	AWZ7330	AWZ7330	
NSP	│ └ MOTOR BOARD ASSY	AWZ7331	AWZ7331	
NSP	└ SERVO MECHANISM ASSY SL	AXA7017	AXA7017	
	└ MECHANISM BOARD ASSY	PWX1192	PWX1192	

■ PARTS LIST FOR XR-P360/DD

Mark	No. Description	Parts No.
	AF ASSY	
	SEMICONDUCTORS	
	IC2101	BU4052BCF
	IC4202	BU4066BCF
	IC4421	CXA1101P
	IC8151	CXA1372Q
	IC8301	CXD2508AQ
⚠	IC1001	ICP–N38
⚠	IC8201, IC8202	LA6520
⚠	IC1003	NJM7805FA
⚠	IC1002, IC1005	NJM7812FA
⚠	IC1004	NJM7905FA
	IC1101	PD4665A
	IC2103	PM0006A
	IC4101, IC4301, IC8401	XRA4558F–P
	Q1013, Q1252	2SA1048
	Q1006, Q1009, Q1011, Q1040, Q4113	2SA1515
	Q4352	2SA1515
	Q1002, Q1005	2SA965
	Q4356	2SC2240
	Q1254, Q1255, Q1261, Q1271	2SC2458
	Q4101, Q4102, Q4203–Q4206	2SC2458
	Q4301, Q4302, Q4305, Q4306	2SC2458
	Q4451–Q4454, Q4501, Q4502	2SC2458
	Q1003, Q1010, Q4111, Q4161	2SC3377
	Q4353, Q4354	2SC3377
	Q1008, Q1253, Q4355, Q8401, Q8402	2SD2144S
	Q8301	2SK246
	Q4307, Q4308	2SK373
	Q1161	DTA143EK
	Q1004, Q1012, Q4456, Q8302	DTA143ES
	Q8403, Q8404	DTA143ES
	Q1162	DTC143EK
	Q1007, Q1041, Q1181, Q4112, Q4207	DTC143ES
	Q4351, Q4455	DTC143ES
	D1007–D1009, D1011, D1022	1SS254
	D1026–D1028, D1104, D1153, D1161	1SS254
	D1163, D1254–D1256, D1271, D4111	1SS254
	D4113, D4115, D4161, D4163	1SS254
	D4201, D4202, D4301–D4306	1SS254
	D4451, D4452, D4490, D4491, D8301	1SS254
⚠	D1001	D3SBA20 (B)
	D1012	MTZJ13C
	D1023	MTZJ36A
	D1010, D8218	MTZJ6.2B
	D1013–D1020, D1024, D1038	S5688G
	D1040–D1042, D1044–D1046	S5688G
	COILS AND FILTERS	
	L1301, L1302 (1 µH)	ATH–133
	L8321	LAU1R2J
	L1101	LAU220J
	L4301, L4302	LTA472J
	L4303, L4304	LTA822J
	F4401, F4402	RTF1209
	TRANSFORMERS	
	T4351	ATX–043
	SWITCHES AND RELAYS	
⚠	RY1251	ASR7007

Mark	No. Description	Parts No.
	CAPACITORS	
	C4361 (2000pF/630V)	ACE1020
	C1001, C1002 (3300 µF/56V)	ACH7006
	C4319, C4320	CCCSL271K500
	C4323, C4324, C8322	CCSQCH100D50
	C4321, C4322	CCSQCH101J50
	C8407–C8410	CCSQCH121J50
	C8323	CCSQCH220J50
	C4353	CCSQCH221J50
	C8403–C8406	CCSQCH271J50
	C4109, C4110, C8401, C8402	CCSQCH391J50
	C4502	CCSQCH470J50
	C4101, C4102	CCSQCH471J50
	C4151, C4152, C4355	CCSQCH681J50
	C1112, C1113, C8350, C8351	CCSQSL101J50
	C1150, C8411, C8412	CEANP2R2M50
	C4303, C4304, C4420, C4451, C4452	CEAS010M50
	C4504	CEAS010M50
	C1019, C1252, C4359, C4360, C4364	CEAS100M50
	C4403–C4405, C4407, C4454	CEAS100M50
	C4401, C4408	CEAS101M10
	C1018	CEAS101M63
	C1007, C1010	CEAS220M35
	C4453	CEAS220M50
	C1251	CEAS221M16
	C1271	CEAS2R2M50
	C4103, C4104, C4309, C4310	CEAS330M16
	C4317, C4318, C8101, C8301	CEAS330M16
	C4357	CEAS3R3M50
	C4107, C4108, C4351	CEAS470M16
	C2201, C2202, C4207, C4208	CEAS4R7M50
	C4301, C4302, C4315, C4316, C8160	CEAS4R7M50
	C8162	CEAS4R7M50
	C8309	CEASR47M50
	C4402, C4406	CEASR68M50
	C1103	CEJA101M10
	C1032-C1035	CEJA470M16
	C8302	CGCYX104K25
	C4363	CKCYB222K500
	C2203, C2209, C8171, C8321	CKSQYB102K50
	C4352, C4354, C4503, C8157, C8164	CKSQYB103K50
	C8167, C8169, C8218, C8361	CKSQYB103K50
	C2221, C2222	CKSQYB104K25
	C8306	CKSQYB152K50
	C4313, C4314	CKSQYB182K50
	C4501	CKSQYB223K50
	C4307, C4308	CKSQYB273K50
	C8170	CKSQYB332K50
	C4305, C4306, C8156, C8168	CKSQYB333K50
	C8172	CKSQYB472K50
	C1036, C1037, C8307	CKSQYB473K50
	C8155	CKSQYB561K50
	C2208	CKSQYB562K50
	C2210, C2211	CKSQYB822K50
	C8207, C8210, C8215, C8219	CKSQYF103Z50
	C2206, C2207, C2212	CKSQYF104Z50
	C8158, C8159, C8161, C8163	CKSQYF104Z50
	C8220, C8221, C8303, C8420, C8421	CKSQYF104Z50
	C1101, C1102, C1110, C1114, C4111	CKSQYF473Z50
	C8222, C8223, C8353	CKSQYF473Z50
	C2204, C2205	CKSQYF683Z50
	C4409, C4410	CQMA103J50
	C4358	CQMA123K250

Mark	No.	Description	Parts No.
	C4356		CQMA153J50
	C4362		CQMA562K400
	C4105, C4106		CQMA682J50
	C4311, C4312		CQMA823J50

RESISTORS

	VR4111, VR4301, VR4302 (4.7k Ω)		PCP1028
	VR4201–VR4204 (10k Ω)		PCP1029
	VR8151, VR8152 (22k Ω)		PCP1030
	VR4351, VR4352 (220k Ω)		PCP1033
	R4352		RD1/2PM102J
	R1002		RD1/2PM182J
	R4353		RD1/2PM470J
	R4357		RD1/2PM6R8J
	R4117		RD1/4PM122J
	R1041		RD1/4PM222J
	R1307, R1308		RD1/4PMFL100J
	R8250		RD1/6PM100J
	R1008, R1010, R1064, R1066, R1136		RD1/6PM102J
	R8454		RD1/6PM102J
	R1003, R4111, R4409, R4416, R4417		RD1/6PM103J
	R4451		RD1/6PM103J
	R4459		RD1/6PM105J
	R1157		RD1/6PM152J
	R2113, R4212		RD1/6PM153J
	R8230		RD1/6PM470J
	R1012		RD1/6PM471J
	R1020		RD1/6PM473J
	R4113, R4114, R4323, R4324		RD1/6PM820J
	R1007, R1017		RS2LMFR22J
	Other Resistors		RS1/10S□□□J

OTHERS

	CN8131	CONNECTOR (12P)	12FMZ-ABT
	CN8202	MT CONNECTOR (4P)	173981–4
		CABLE HOLDER (9P)	51048–0900
		CABLE HOLDER (5P)	51052–0500
		CABLE HOLDER (7P)	51052–0700
		CABLE HOLDER (9P)	51063–0905
		CABLE HOLDER (14P)	51063–1405
		CABLE HOLDER (15P)	51063–1505
	CN8205	6P JUMPER CONNECTOR	52147–0610
	CN101	SPEAKER TERMINAL 4–P	AKE7017
		BUZZER	APV7001
	X8301 (33.8688MHz)		ASS7000
	CN4003	2P TOP POST	B2B–EH
	CN4002	3P TOP POST	B3B–EH
	CN4001	3P TOP POST	B3B–EH–R
	CN1	FFC CONNECTOR (17P)	HLEM17S-1
	CN4	11P PLUG	KM200IA11
	CN9	14P PLUG	KM200IA14
	JA2101, JA2102	2P PIN JACK	RKB1041
	JA1005	JACK (REMOTE CONTROL)	RKN1004
		PCB BINDER	VEF1008
	CN8201	6P SIDE POST	VKN–004
	X1101 (4.19MHz)		VSS1014

SECONDARY ASSY

SEMICONDUCTORS

⚠	IC1006, IC1008		ICP–N38
⚠	IC1031		ICP–N70
⚠	D1003–D1006		S5566
⚠	D1030–D1033		S5688G

Mark	No.	Description	Parts No.

CAPACITORS

	C1004		CEAS102M25
	C1003		CEAS222M25
	C1030		CEAS222M35

OTHERS

		CABLE HOLDER (14P)	51063–1405

VR ASSY

SEMICONDUCTORS

	IC1501		XRA4558F–P
	Q1501, Q1502		2SC2458
	Q1503		DTA143ES

CAPACITORS

	C1557, C1558		CCSQCH471J50
	C1501–C1504		CEAS2R2M50
	C1513, C1514		CKSQYB104K25
	C1515, C1516		CKSQYB223K50
	C1551		CKSQYF104Z50
	C1511, C1512		CQMA104J50

RESISTORS

	VR301 (100kΩ–A5x2)		ACX7015
	Other Resistors		RS1/10S□□□J

OTHERS

	CN1004	11P SOCKET	KP200IA11L

PRIMARY ASSY

OTHERS

⚠	H1101–H1104	FUSE CLIP	AKR1003

DISPLAY ASSY

SEMICONDUCTORS

	IC1901		PDC030B
	IC2501, IC3701–IC3703		XRA4558F–P
	Q1901		2SC2458
	Q1710		DTA143EK
	Q1701-Q1709, Q1711–Q1713, Q1902		DTC143EK
	D1800-D1807, D1812, D1817, D1901		1SS254
	D1903, D1905, D1907, D1908		1SS254
	D1910, D1911, D3701, D3703–D3706		1SS254
	D1709		BR5064X
	D1721, D1723, D1727, D1729		GL1EG21
	D1722, D1724–D1726, D1728		GL1HS21
	D1707, D1708		MPG5064X
	D1904		MTZJ6.8B

COILS AND FILTERS

	L1901		LAU220J

SWITCHES AND RELAYS

	S1811–S1832		ASG1051

CAPACITORS

	C1903 (0.047F/5.5V)		ACH1246
	C2504		CCSQCH221J50
	C3710, C3711		CCSQSL471J50
	C1908		CEJA010M50
	C1910, C2503, C2505, C2510		CEJA100M50
	C1917		CEJA330M50

Mark	No.	Description	Parts No.
	C1906 (0.047F/5.5V)		CEJA331M6R3
	C1902		CEJA470M16
	C1907		CEJAR47M50
	C1909		CKSQYB102K50
	C2501		CKSQYB122K50
	C3716, C3717		CKSQYB152K50
	C3707, C3708		CKSQYB153K50
	C3713, C3714		CKSQYB472K50
	C3701–C3703, C3709, C3712, C3715		CKSQYB473K50
	C3718		CKSQYB473K50
	C2506		CKSQYB682K50
	C1913, C1951		CKSQYF104Z50
	C1901, C1904, C1905, C1911, C1912		CKSQYF473Z50
	C2507–C2509		CKSQYF473Z50

RESISTORS

	VR2501 (10k Ω–B)		ACS1048
	R1758		RA15T473J
	R1907		RD1/4PM102J
	R1905		RD1/4PM103J
	R1717, R1721, R1726-R1729		RD1/4PM621J
	R1909		RD1/6PM102J
	R1722		RD1/6PM181J
	R1740		RD1/6PM221J
	R1801–R1805		RD1/6PM223J
	Other Resistors		RS1/10S□□□J

OTHERS

		CABLE HOLDER (14P)	51063–1405
	V1701	FL TUBE	AAV7022
	JA2501	SR JACK	AKN7004
	CN1901	FFC CONNECTOR (17P)	HLEM17S–1
		REMOTE SENSOR	SBX1785–51
	X1901 (6.00MHz)		VSS1045

H.P. ASSY

CAPACITORS

	C2211, C2212		CEAS3R3M50

RESISTORS

	R2201, R2202		RS2LMF331J

OTHERS

	CN2251	MINI JACK	AKN1028

DECK SW ASSY

SEMICONDUCTORS

	D1705		GL1PR21
	D1702		MAA5064X
	D1701, D1703, D1704, D1706		MPG5064X

SWITCHES AND RELAYS

	S1801–S1810		ASG1051

RESISTORS

	All Resistors		RD1/4PM□□□J

PAC FAN ASSY

SEMICONDUCTORS

	IC1202		ICP–N10
	IC1201		STK4192–2GP
	Q2350		2SA1048
	Q2312		2SC3377
	Q2311		DTA143ES

Mark	No.	Description	Parts No.
	Q2351, Q2352		DTC143ES
	D2311, D2351–D2354		1SS254
	D2312, D2313		S5688G

CAPACITORS

	C1211		CEANP220M35
	C1207, C1208		CEANP470M25
	C1213		CEANP470M50
	C1209, C1210, C1212		CEAS100M50
	C1205, C1206, C2350		CEAS220M50
	C2403, C2404		CEASR22M50
	C1203, C1204		CKSQYB391K50
	C1214–C1217		CKSQYF104Z50

RESISTORS

	R2350		RD1/2PM220J
	R1207–R1210, R1216, R1217		RD1/4PM222J
	R1211, R1212		RD1/4PM563J
	R1213, R1214		RD1/4PMFL101J
	R1215		RD1/4PMFL102J
	R1218		RD1/4PMFL561J
	R2311		RD1/6PM113J
	R2345		RD1/6PM223J
	R1205, R1206		RD1/6PM561J
	Other Resistors		RS1/10S□□□J

OTHERS

	CN1411	9P JUMPER CONNECTOR	52151–0910
	TH2311	THERMISTOR	AEX7002

FM/AM TUNER MODULE

SEMICONDUCTORS

	IC6201		LA1836M
	IC6202		LM7001J
	Q6102		2SC2223
	Q6203		2SC2235
	Q6202		2SC2712
	Q6103, Q6214		2SC2714
	Q6201		2SK208
	Q6104		2SK302
	Q6101		3SK194
	Q6204		XDA124EK
	Q6217		XDC124EK
	D6101, D6102		1T33

COILS AND FILTERS

	L6104		ATC1003
	L6101		ATC1020
	L6102		ATC1021
	L6207 (10.7MHz)		ATE1013
	F6203, F6204		ATF–119
	F6101		ATF–155
	F6202 (450kHz)		ATF1155
	L6103 (2.2 µH)		ATH1043
	L6202, L6203, L6208		LCTA2R2J3225

TRANSFORMERS

	T6101		ATE–063

CAPACITORS

	C6202, C6234, C6236 (1 µF/16V)		ACG1051
	C6107		CCSCH010C50
	C6229		CCSCH821J50
	C6110		CCSQCH020C50
	C6101		CCSQCH050C50
	C6108, C6203, C6268		CCSQCH101J50

Mark	No.	Description	Parts No.
	C6111, C6116, C6208, C6221, C6222		CCSQCH150J50
	C6115		CCSQCH330J50
	C6114		CCSQRH080D50
	C6113		CCSQRH180J50
	C6105		CCSQTH150J50
	C6261		CEAS010M50
	C6224, C6246, C6262		CEAS100M50
	C6227		CEAS101M10
	C6216, C6217		CEAS330M16
	C6231, C6233		CEAS3R3M50
	C6219		CEAS470M10
	C6243–C6245		CEAS470M16
	C6238		CEJA100M16
	C6249, C6250		CEJA4R7M35
	C6215		CFTXA103J50
	C6214		CFTXA224J50
	C6103, C6106, C6112, C6204		CKSQYB102K50
	C6102, C6109, C6117, C6210, C6264		CKSQYB103K50
	C6213		CKSQYB223K50
	C6230		CKSQYB333K50
	C6228, C6252		CKSQYB472K50
	C6209, C6237, C6265, C6267		CKSQYB473K50
	C6212, C6218		CKSQYF103Z50
	C6220, C6226, C6239, C6242, C6255		CKSQYF223Z50
	C6235		CKSQYF224Z25
	C6225, C6241, C6266		CKSQYF473Z50
	C6232		CKSYB333K50
	C6251		CKSYB472K50
	C6223		CKSYF103Z50
	C6263		CKSYF473Z50
RESISTORS			
	VR6201 (10k Ω)		ACP1056
	VR6202		VRTB6VS223
	R6299, R6300		RD1/8PM102J
	R6113, R6116, R6118, R6268–R6271		RS1/8S000J
	R6275, R6276, R6278, R6283, R6284		RS1/8S000J
	R6290, R6293, R6294, R6297		RS1/8S000J
	R6243, R6244		RS1/8S101J
	R6211		RS1/8S103J
	R6237		RS1/8S182J
	R6209		RS1/8S221J
	R6239		RS1/8S332J
	R6101		RS1/8S470J
	Other Resistors		RS1/10S□□□J
OTHERS			
	BN6201	ANTENNA TERMINAL 4–P	AKA1016
	CN6201	14P SOCKET	KP200IA14L
	X6203 (7.200MHz)		ASS1042
	X6201 (456KHz)		ASS1066
	X6202 (450kHz)		ATF1027
		AM RF TUNING BLOCK	AXX1041
SENSOR BOARD ASSY			
SEMICONDUCTORS			
	Q601, Q602		PS3062
RESISTORS			
	All Resistors		RD1/6PM□□□J

Mark	No.	Description	Parts No.
LED BOARD ASSY			
SEMICONDUCTORS			
	D601, D602		AN306
RESISTORS			
	All Resistors		RD1/6PM□□□J
SW BOARD ASSY			
SWITCHES AND RELAYS			
	S601		DSG1017
MOTOR BOARD ASSY			
MOTOR BOARD assy has no service part.			
MECHANISM BOARD ASSY			
SWITCHES AND RELAYS			
	S610		DSG1016
OTHERS			
	CN610	CONNECTER (4P)	173979-4

■ CONTRAST OF PCB ASSEMBLIES

DISPLAY Assy

AWZ7827 and AWZ8230 have the same construction except for the following:

Mark	Symbol & Description	Part No.		Remarks
		AWZ7827	AWZ8230	
	D1812, D1817	1SS254	Not used	
	D1811, D1818	Not used	1SS254	

■ PARTS LIST FOR XR-P360G/D/DF

AF ASSY (AWZ8052)

SEMICONDUCTORS

Mark	No. Description	Parts No.
	IC2101	BU4052BCF
	IC4202	BU4066BCF
	IC4421	CXA1101P
	IC8151	CXA1372Q
	IC8301	CXD2508AQ
⚠	IC1001	ICP-N38
⚠	IC8201, IC8202	LA6520
	IC8602	LC32464P–80
	IC8601	LC7872E
⚠	IC1003	NJM7805FA
⚠	IC1002, IC1005	NJM7812FA
⚠	IC1004	NJM7905FA
	IC1101	PD4665A
	IC2103	PM0006A
	IC4101, IC4301, IC8401	XRA4558F–P
	Q1013, Q1252, Q8601	2SA1048
	Q1006, Q1009, Q1011, Q1040, Q4113	2SA1515
	Q4352	2SA1515
	Q1002, Q1005	2SA965
	Q4356	2SC2240
	Q1254, Q1255, Q1261, Q1271	2SC2458
	Q4101, Q4102, Q4203–Q4206	2SC2458
	Q4301, Q4302, Q4305, Q4306	2SC2458
	Q4451–Q4454, Q4501, Q4502, Q8602	2SC2458
	Q1003, Q1010, Q4111, Q4161	2SC3377
	Q4353, Q4354	2SC3377
	Q1008, Q1253, Q4355, Q8401, Q8402	2SD2144S
	Q8301, Q8603, Q8801, Q8802	2SK246
	Q4307, Q4308	2SK373
	Q1161, Q8803	DTA143EK
	Q1004, Q1012, Q4456, Q8302	DTA143ES
	Q8403, Q8404	DTA143ES
	Q1162, Q8804	DTC143EK
	Q1007, Q1041, Q1181, Q4112, Q4207	DTC143ES
	Q4351, Q4455	DTC143ES
	D1007–D1009, D1011, D1022	1SS254
	D1026–D1028, D1104, D1153, D1161	1SS254
	D1163, D1254–D1256, D1271, D4111	1SS254
	D4113, D4115, D4161, D4163	1SS254
	D4201, D4202, D4301-D4306	1SS254
	D4451, D4452, D8301, D8601, D8602	1SS254
	D8801–D8803, D4490, D4491	1SS254
⚠	D1001	D3SBA20 (B)
	D1012	MTZJ13C
	D1023	MTZJ36A
	D1010, D8218	MTZJ6.2B
	D1013–D1020, D1024, D1038	S5688G
	D1040–D1042, D1044–D1046	S5688G

COILS AND FILTERS

Mark	No. Description	Parts No.
	L1301, L1302 (1 μH)	ATH–133
	L8321	LAU1R2J
	L1101	LAU220J
	L4301, L4302	LTA472J
	L4303, L4304	LTA822J
	F4401, F4402	RTF1209

TRANSFORMERS

Mark	No. Description	Parts No.
	T4351	ATX-043

SWITCHES AND RELAYS

Mark	No. Description	Parts No.
⚠	RY1251	ASR7007

CAPACITORS

Mark	No. Description	Parts No.
	C4361 (2000pF/630V)	ACE1020
	C1001, C1002 (3300 μF/56V)	ACH7006
	C4319, C4320	CCCSL271K500
	C4323, C4324, C8322	CCSQCH100D50
	C4321, C4322	CCSQCH101J50
	C8407–C8410	CCSQCH121J50
	C8323	CCSQCH220J50
	C4353, C8612	CCSQCH221J50
	C8403–C8406	CCSQCH271J50
	C8604	CCSQCH330J50
	C8603	CCSQCH390J50
	C4109, C4110, C8401, C8402	CCSQCH391J50
	C4502	CCSQCH470J50
	C4101, C4102	CCSQCH471J50
	C4151, C4152, C4355	CCSQCH681J50
	C1112, C1113, C8350, C8351, C8611	CCSQSL101J50
	C1150, C8411, C8412	CEANP2R2M50
	C4303, C4304, C4420, C4451, C4452	CEAS010M50
	C4504	CEAS010M50
	C1019, C1252, C4359, C4360, C4364	CEAS100M50
	C4403–C4405, C4407, C4454	CEAS100M50
	C4401, C4408, C8605	CEAS101M10
	C1018	CEAS101M63
	C1007, C1010	CEAS220M35
	C4453	CEAS220M50
	C1251	CEAS221M16
	C1271	CEAS2R2M50
	C4103, C4104, C4309, C4310	CEAS330M16
	C4317, C4318, C8101, C8301	CEAS330M16
	C4357	CEAS3R3M50
	C4107, C4108, C4351	CEAS470M16
	C8606	CEAS470M50
	C8607–C8609	CEAS471M10
	C2201, C2202, C4207, C4208	CEAS4R7M50
	C4301, C4302, C4315, C4316, C8160	CEAS4R7M50

Mark	No.	Description	Parts No.
	C8162		CEAS4R7M50
	C8309		CEASR47M50
	C4402, C4406		CEASR68M50
	C1103		CEJA101M10
	C1032-C1035		CEJA470M16
	C8302, C8601		CGCYX104K25
	C4363		CKCYB222K500
	C2203, C2209, C8171, C8321		CKSQYB102K50
	C4352, C4354, C4503, C8157, C8164		CKSQYB103K50
	C8167, C8169, C8218, C8361		CKSQYB103K50
	C2221,C2222		CKSQYB104K25
	C8306		CKSQYB152K50
	C4313, C4314		CKSQYB182K50
	C4501		CKSQYB223K50
	C4307, C4308		CKSQYB273K50
	C8170		CKSQYB332K50
	C4305, C4306, C8156, C8168		CKSQYB333K50
	C8172		CKSQYB472K50
	C8307,C1036,C1037		CKSQYB473K50
	C8155		CKSQYB561K50
	C2208		CKSQYB562K50
	C2210, C2211		CKSQYB822K50
	C8207, C8210, C8215, C8219		CKSQYF103Z50
	C2206, C2207, C2212		CKSQYF104Z50
	C8158, C8159, C8161, C8163		CKSQYF104Z50
	C8220, C8221, C8303, C8420, C8421		CKSQYF104Z50
	C8501, C8602		CKSQYF104Z50
	C1101, C1102, C1110, C1114, C4111		CKSQYF473Z50
	C8222, C8223, C8353, C8610, C8620		CKSQYF473Z50
	C2204, C2205		CKSQYF683Z50
	C4409, C4410		CQMA103J50
	C4358		CQMA123K250
	C4356		CQMA153J50
	C4362		CQMA562K400
	C4105, C4106		CQMA682J50
	C4311, C4312		CQMA823J50
RESISTORS			
	VR4111, VR4301, VR4302 (4.7k Ω)		PCP1028
	VR4201–VR4204 (10k Ω)		PCP1029
	VR8151, VR8152 (22k Ω)		PCP1030
	VR4351, VR4352 (220k Ω)		PCP1033
	R4352		RD1/2PM102J
	R1002		RD1/2PM182J
	R4353		RD1/2PM470J
	R4357		RD1/2PM6R8J
	R8605		RD1/2PM820J
	R4117		RD1/4PM122J
	R1041		RD1/4PM222J
	R1307, R1308		RD1/4PMFL100J
	R8250		RD1/6PM100J
	R1008, R1010, R1064, R1066, R1136		RD1/6PM102J
	R8454		RD1/6PM102J
	R1003, R4111, R4409, R4416, R4417		RD1/6PM103J
	R4451		RD1/6PM103J
	R4459		RD1/6PM105J
	R1157		RD1/6PM152J
	R2113, R4212		RD1/6PM153J
	R8230		RD1/6PM470J
	R1012		RD1/6PM471J
	R1020		RD1/6PM473J
	R4113, R4114, R4323, R4324		RD1/6PM820J
	R1007, R1017		RS2LMFR22J
	Other Resistors		RS1/10S□□□J

Mark	No.	Description	Parts No.
OTHERS			
	CN8131	CONNECTOR (12P)	12FMZ–ABT
	CN8202	MT CONNECTOR (4P)	173981–4
		CABLE HOLDER (9P)	51048–0900
		CABLE HOLDER (5P)	51052–0500
		CABLE HOLDER (7P)	51052–0700
		CABLE HOLDER (9P)	51063–0905
		CABLE HOLDER (14P)	51063–1405
		CABLE HOLDER (15P)	51063–1505
	CN8205	6P JUMPER CONNECTOR	52147–0610
	CN101	SPEAKER TERMINAL 4–P	AKE7017
		BUZZER	APV7001
	X8301 (33.8688MHz)		ASS7000
	X8601 (14.31818MHz)		ASS7010
	CN4003	2P TOP POST	B2B–EH
	CN4002	3P TOP POST	B3B–EH
	CN4001	3P TOP POST	B3B–EH–R
	CN1	FFC CONNECTOR (17P)	HLEM17S-1
	CN4	11P PLUG	KM200IA11
	CN9	14P PLUG	KM200IA14
	JA2102	2P PIN JACK	RKB1041
	JA2101	3P PIN JACK	RKB1043
	JA1005	JACK (REMOTE CONTROL)	RKN1004
	JA8001	OPTICAL OUTPUT JACK	TOTX178
		PCB BINDER	VEF1008
	CN8201	6P SIDE POST	VKN–004
	X1101 (4.19MHz)		VSS1014

FM/AM TUNER MODULE (AXQ7021)

SEMICONDUCTORS			
	IC6201		LA1836M
	IC6202		LM7001J
	Q6102		2SC2223
	Q6203		2SC2235
	Q6202		2SC2712
	Q6103, Q6214		2SC2714
	Q6201		2SK208
	Q6104, Q6105		2SK302
	Q6101		3SK194
	Q6204		XDA124EK
	Q6217		XDC124EK
	D6101, D6102, D6104		1SV228
COILS AND FILTERS			
	L6106		ATC1008
	L6101		ATC1025
	L6102		ATC1026
	L6103		ATC1027
	L6104		ATC1028
	L6207 (10.7MHz)		ATE1013
	F6204		ATF–107
	F6203		ATF–119
	F6202 (450kHz)		ATF1155
	L6107 (2.2 μH)		ATH1043
	L6202, L6208		LCTA2R2J3225
TRANSFORMERS			
	T6101		ATE–063
CAPACITORS			
	C6201, C6234, C6236 (1 μF/16V)		ACG1051
	C6120		CCSCH150J50
	C6229		CCSCH821J50

Mark	No.	Description	Parts No.
	C6111		CCSQCH010C50
	C6112, C6122		CCSQCH020C50
	C6118		CCSQCH080D50
	C6113		CCSQCH101J50
	C6116, C6208, C6221, C6222		CCSQCH150J50
	C6117		CCSQCH330J50
	C6119		CCSQUJ060D50
	C6101		CCSQUJ150J50
	C6106		CCSQUJ270J50
	C6107		CCSQUJ330J50
	C6261		CEAS010M50
	C6224, C6231, C6233, C6246, C6262		CEAS100M50
	C6227		CEAS101M10
	C6216, C6217		CEAS330M16
	C6219		CEAS470M10
	C6243-C6245		CEAS470M16
	C6238		CEJA100M16
	C6249, C6250		CEJA4R7M35
	C6215		CFTXA103J50
	C6214		CFTXA224J50
	C6105, C6115, C6125, C6126, C6204		CKSQYB102K50
	C6207		CKSQYB102K50
	C6102, C6103, C6114, C6121, C6124		CKSQYB103K50
	C6210, C6264		CKSQYB103K50
	C6213		CKSQYB223K50
	C6230		CKSQYB333K50
	C6228, C6251, C6252		CKSQYB472K50
	C6209, C6237		CKSQYB473K50
	C6212, C6218		CKSQYF103Z50
	C6220, C6226, C6239, C6242		CKSQYF223Z50
	C6255, C6256		CKSQYF223Z50
	C6235		CKSQYF224Z25
	C6225, C6241		CKSQYF473Z50
	C6123		CKSYB103K50
	C6232		CKSYB333K50
	C6223		CKSYF103Z50
	C6263		CKSYF473Z50
RESISTORS			
	VR6201 (10k Ω)		ACP1056
	VR6202		VRTB6VS223
	R6299, R6300		RD1/6PM102J
	R6115, R6119, R6123, R6127		RS1/8S000J
	R6268–R6271, R6275, R6276, R6278		RS1/8S000J
	R6283, R6284, R6293, R6294, R6297		RS1/8S000J
	R6303, R9998, R9999		RS1/8S000J
	R6243, R6244		RS1/8S101J
	R6211		RS1/8S103J
	R6237		RS1/8S182J
	R6209		RS1/8S221J
	R6239		RS1/8S332J
	R6112		RS1/8S473J
	Other Resistors		RS1/10S□□□J
OTHERS			
	BN6201	ANTENNA TERMINAL 4–P	AKA1016
	CN6201	14P SOCKET	KP200IA14L
	X6203 (7.200MHz)		ASS1042
	X6201 (456kHz)		ASS1066
	X6202 (450kHz)		ATF1027
		AM RF TUNING BLOCK	AXX1041

4. ADJUSTMENTS

4.1 TUNER SECTION

■ FM Tuner Section

- Set the mode selector to FM BAND.
- Connect the wiring as shown in Fig. 1–1.

- For XR-P360/DD (AXQ1012)

Step No.	Adjustment Title	FM SG (1kHz, ±75kHz dev.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (MHz)	Level (dBμV)			
1	Center Adjustment	98 Non modulation	80 or more	—	L6207	Adjust so that the DC voltage between IC6201-Pin 4 and Pin 28 (or ⊕ leads of C6224 and C6261) becomes 0V±50mV.
2	Front End Sencitivity	98	10-30	98MHz	L6102 T6101	Adjust so that the DC voltage between the IC6201-Pin 12 and GND (or ⊕ leads of C6238 and GND) becomes at maximum level.
3	Stereo Distortion	98	80	98MHz	T6101	Minimize the distortion with 1/8 rotation of the core.
4	TUNED IND. Lighting Level	98	15±2	98MHz	VR6201	Adjust so that the indicator of TUNED IND. starts to light up.

Notes:

- *Before adjusting, make sure there is no gap between L6101 and L6102. If there is a gap between them, bring them into contact with each other first, and then make adjustments.*
- *Make indicator adjustments in order of AM →FM.*

- For XR-P360G/D/DF (AXQ7021)

Step No.	Adjustment Title	FM SG (1kHz, ±75kHz dev.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (MHz)	Level (dBμV)			
1	Center Adjustment	83 Non modulation	80 or more	83MHz	L6207	Adjust so that the DC voltage between IC6201-Pin 4 and Pin 28 (or ⊕ leads of C6224 and C6261) becomes 0V±50mV.
2	Front End Sencitivity	83	10-30	83MHz	L6104 L6102 T6101	Adjust so that the DC voltage between the IC6201-Pin 12 and GND (or ⊕ leads of C6238 and GND) becomes at maximum level.
3	TUNED IND. Lighting Level	83	15±2	83MHz	VR6201	Adjust so that the indicator of TUNED IND. starts to light up.

Notes:

- *Before adjusting, make sure there is no gap between L6101 and L6102 and between L6103 and L6104. If there is a gap between them, bring them into contact with each other first, and then make adjustments.*
- *Make indicator adjustments in order of AM →FM.*

■ AM Tuner Section

- Set the mode selector to AM BAND.
- Connect the wiring as shown in Fig. 1–1.

Step No.	Adjustment Title	AM SG (400Hz, 30% Mod.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (kHz)	Level (dBμV/m)			
1	TUNED IND. Lighting Level	999	47±2	999kHz*1	VR6202	Adjust so that the indicator of TUNED IND. starts to light up.

*1: For the area using 10kHz step, frequencies should be 1000 kHz

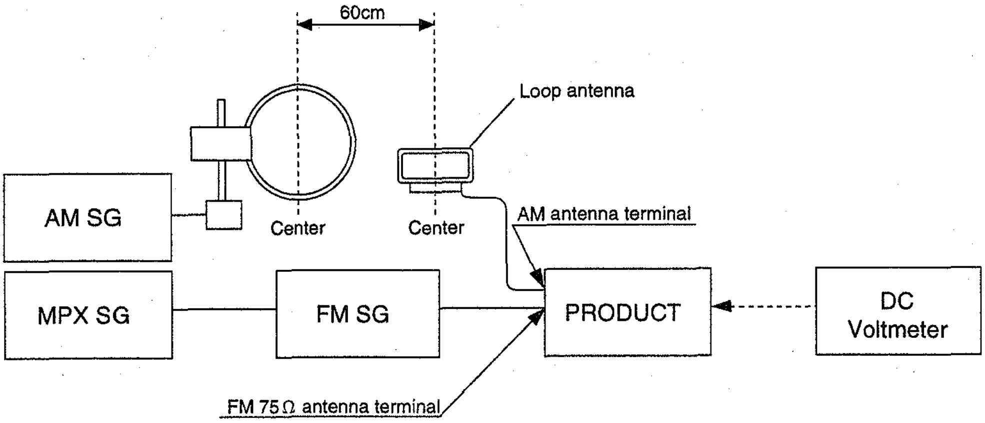
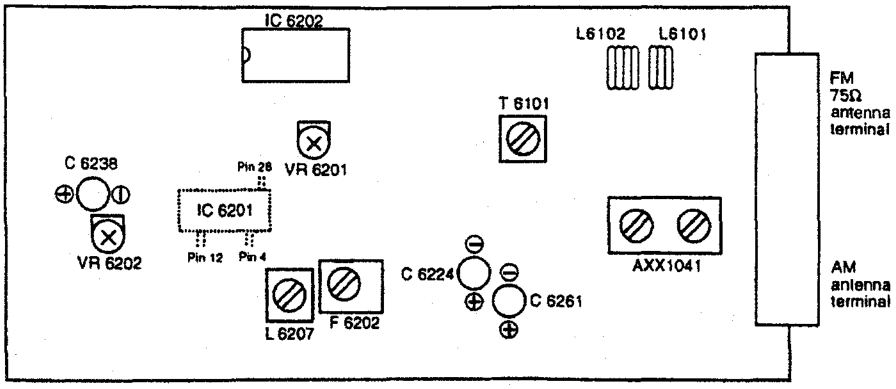

60cm
Loop antenna
AM SG
Center
Center
AM antenna terminal
MPX SG
FM SG
PRODUCT
DC Voltmeter
FM 75Ω antenna terminal

Fig. 1–1 AM and FM Adjustment Wiring Diagram

FM/AM TUNER MODULE (AXQ1012)


IC 6202
L6102
L6101
FM 75Ω antenna terminal
T 6101
C 6238
Pin 28
VR 6201
IC 6201
VR 6202
Pin 12
Pin 4
L 6207
F 6202
C 6224
C 6261
AXX1041
AM antenna terminal

FM/AM TUNER MODULE (AXQ7021)

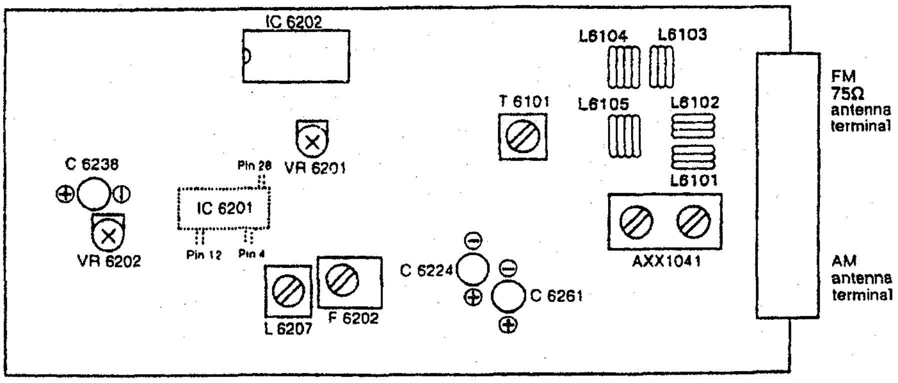

IC 6202
L6104
L6103
FM 75Ω antenna terminal
T 6101
L6105
L6102
L6101
C 6238
Pin 28
VR 6201
IC 6201
VR 6202
Pin 12
Pin 4
L 6207
F 6202
C 6224
C 6261
AXX1041
AM antenna terminal

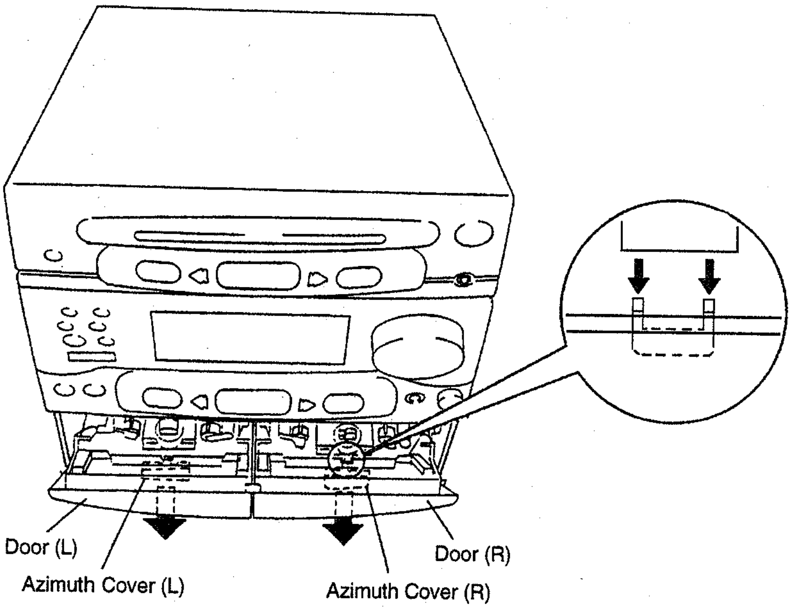
Fig. 1–2 Adjustment Points

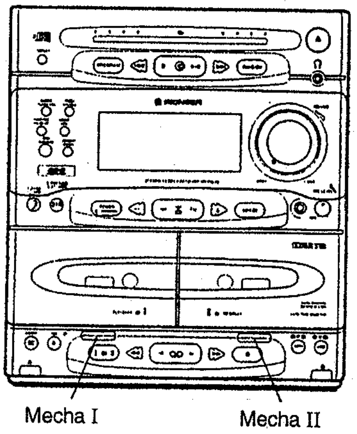
4.2 CASSETTE DECK SECTION

- Adjustment points and test points are shown in Fig. 2-2 and Fig. 2-4.

■ Before Adjustment

1. For execution of head angle adjustment, first remove the azimuth covers (L) and (R).
2. Open the cassette doors (L) and (R).
3. Insert your fingers into the cassette door, push down the two hooks at the upper side of the azimuth cover, and push them slightly out to the front. Excessive pushing at this time may make it impossible to close the cassette door.
4. Confirm that the azimuth covers (L) and (R) have been pushed out a little to the front, and then close the cassette doors (L) and (R) and remove the azimuth covers.





■ Mechanical Adjustment

- Test tape: STD-301 (3kHz, 30min).

1. Tape Speed Adjustment

No.	Mode	Test Tape	Adjusting Points	Measurement Points	Adjustment Procedure	Remarks
1	Deck I PLAY	STD-301 (Playback: 3kHz)	AF Assy VR4111	TAPE TEST POINT (Rch) (AF Assy)	Press the PLAY SW and adjust so that the reading becomes 3000Hz ±20Hz. Confirm that wow & flutter level is below 0.2% (in the reverse direction, confirm that the reading is within 3000Hz ±60Hz).	

■ Electrical Adjustment

Check the following before starting.

1. Confirm that the tape speed adjustment has been completed.
2. Clean the heads and demagnetize them using a head eraser.
3. Set the measurement level to 0 dBV = 1 Vrms.
4. Use the specified tape for adjustment. Use the labeled (A) side of the test tape.
   STD-331E: For playback adjustment
   STD-631or STD-632: Normal blank tape
5. Provide yourself with the following measuring devides:
   - AC millivoltmeter
   - Low-frequency oscillator
   - Attenuator
   - Oscilloscope
6. Adjust both right and left channels unless otherwise specified.
7. Turn the DOLBY NR switch off unless otherwize specified.
8. Warm up the unit for several minutes before adjustment. In particular, be sure to warm up the unit in the REC/PLAY mode for 3 to 5 minutes before starting recording/playback frequency characteristics adjustment.
9. Always follow the indicated adjustment order. Otherwise, a complete adjustment may not be achieved.

Playback Adjustment (Decks I and II)

1. Head Azimuth Adjustment
2. Playback Level Adjustment

Recording Adjustment (Deck II)

1. Bias Oscillation Frequency Adjustment
2. Recording Bias Adjustment
3. Recording Level Adjustment.
4. ALC Operation Check

* *As the reference recording level is 250nwb / m for STD-331E, the recording level will be higher by 4 dB for STD-331B (160nwb / m). When adjusting, pay carefull attention to the type of tape used.*

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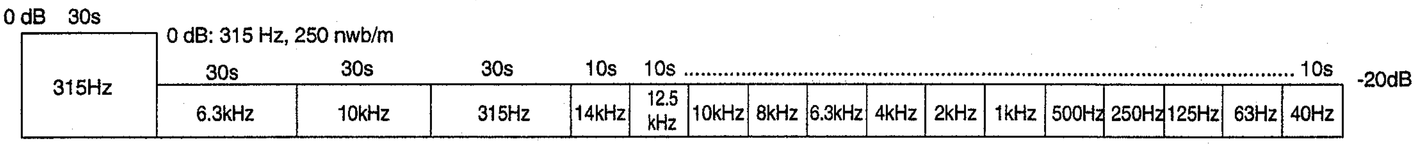
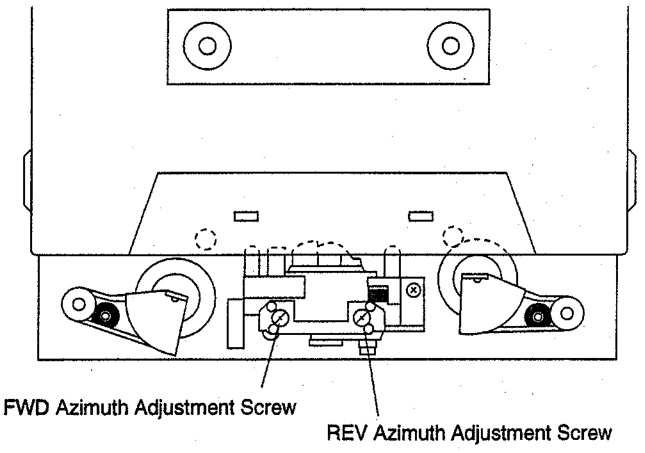


0 dB 30s
315Hz
0 dB: 315 Hz, 250 nwb/m
30s
30s
30s
10s
10s
10s
-20dB
6.3kHz
10kHz
315Hz
14kHz
12.5 kHz
10kHz
8kHz
6.3kHz
4kHz
2kHz
1kHz
500Hz
250Hz
125Hz
63Hz
40Hz

Fig. 2–1 STD-331E Test Tape



FWD Azimuth Adjustment Screw
REV Azimuth Adjustment Screw

Fig. 2–2 Head Azimuth Adjustment

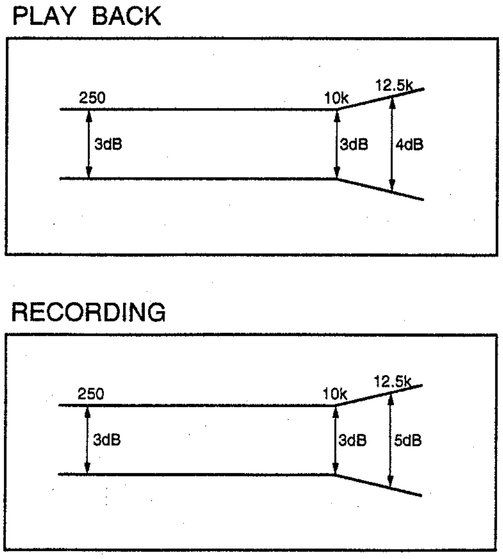


Fig. 2–3 Frequency Characteristics

■ Playback Adjustment

- This unit is equipped with auto tape selector.
- Do not switch between forward and reverse operation with the screwdriver inserted.

1. Head Azimuth Adjustment

Step	Tape Selector (AUTO)	Mode	Input Signal/ Test Tape	Adjusting Points		Measurement Points	Adjustment Value	Remarks
1	NORMAL	PLAY	STD-331E test tape (Playback: 10kHz, – 20dB)	Deck I	Head azimuth adjustment screw (Fig. 2-2)	TAPE TEST POINT (L, Rch) (AF Assy)	Max. playback signal level	After adjustment, apply silicon bond to the head azimuth adjustment screw.
				Deck II				

2. Playback Level Adjustment

- Since this adjustment determines playback Dolby NR level, perform it carefully.

Step	Tape Selector (AUTO)	Mode	Input Signal/ Test Tape	Adjusting Points		Measurement Points	Adjustment Value	Remarks
1	NORMAL	PLAY	STD-331E test tape (Playback: 315Hz, 0dB)	Deck I	VR4201 (Lch) VR4202 (Rch)	TAPE TEST POINT (L, Rch) (AF Assy)	– 4.2 dBV	
				Deck II	VR4203 (Lch) VR4204 (Rch)			

■ Recording Adjustment

1. Bias Oscillation Frequency Adjustment

Step	Tape Selector (AUTO)	Mode	Input Signal/ Test Tape	Adjusting Points		Measurement Points	Adjustment Value	Remarks
1	NORMAL	REC	Load the STD–631 or STD–632 test tapes and set the recording mode.	Deck I	————	————	Oscillation frequency to be 105.0kHz ±2kHz.	When the power is turned ON while the MONO button is depressed, the frequency will decrease 2 – 3 kHz.
				Deck II	T4351	Between Ⓐ point in Fig. 2-4 and GND.		

2. Recording Bias Adjustment

- Since this adjustment affects recording bias, prevent distortion from increasing due to underbias.

Step	Tape Selector (AUTO)	Mode	Input Signal/Test Tape	Adjusting Points		Measurement Points	Adjustment Value	Remarks
1	NORMAL	REC	Input a 315Hz signal to the AUX/ CD II terminal and set the input selector to AUX/CD II.	Deck I	——	TAPE TEST POINT (L, Rch) (AF Assy)	– 25.2 dBV	
				Deck II	Input signal level			
2	NORMAL	REC→ PLAY	Load the STD-631 or STD-632 test tapes and record/playback the 315Hz and 10kHz signals. (see the Note below)	Deck I	——	TAPE TEST POINT (L, Rch) (AF Assy)	Repeat adjustment until playback level of the 10kHz signal is within 0±0.5dB from that of the 315Hz signal.	
				Deck II	VR4351 (Lch) VR4352 (Rch)			

Note: Set the 10kHz input signal level to the same value as the 315Hz input signal level of step 1.

3. Recording Level Adjustment

Step	Tape Selector (AUTO)	Mode	Input Signal/Test Tape	Adjusting Points		Measurement Points	Adjustment Value	Remarks
1	NORMAL	REC	Input a 315Hz signal to the AUX/ CD II terminal and set the input selector to AUX/CD II.	Deck I	Input signal level	TAPE TEST POINT (L, Rch) (AF Assy)	– 8.2 dBV	
				Deck II				
2	NORMAL	REC → PLAY	STD-631 or STD-632 test tape and record/playback the 315Hz signal.	Deck I	——	TAPE TEST POINT (L, Rch) (AF Assy)	Repeat recording, playback and adjustment until playback level of the 315Hz signal becomes -8.2dBV.	
				Deck II	VR4301 (Lch) VR4302 (Rch)			

4. ALC Operation Check

Step	Tape Selector (AUTO)	Mode	Input Signal/Test Tape	Adjusting Points	Measurement Points	Adjustment Value	Remarks
1	NORMAL	REC/ PAUSE	Input a 315Hz signal to the AUX/CD II terminal and set the input selector to AUX/CD II.	Input signal level	TAPE TEST POINT (L, Rch) (AF Assy)	– 8.2 dBV	
2				Set to a level +10 dB above the input level at step 1.		Confirm that the reading is –3.2±2.5dBV.	

AF Assy

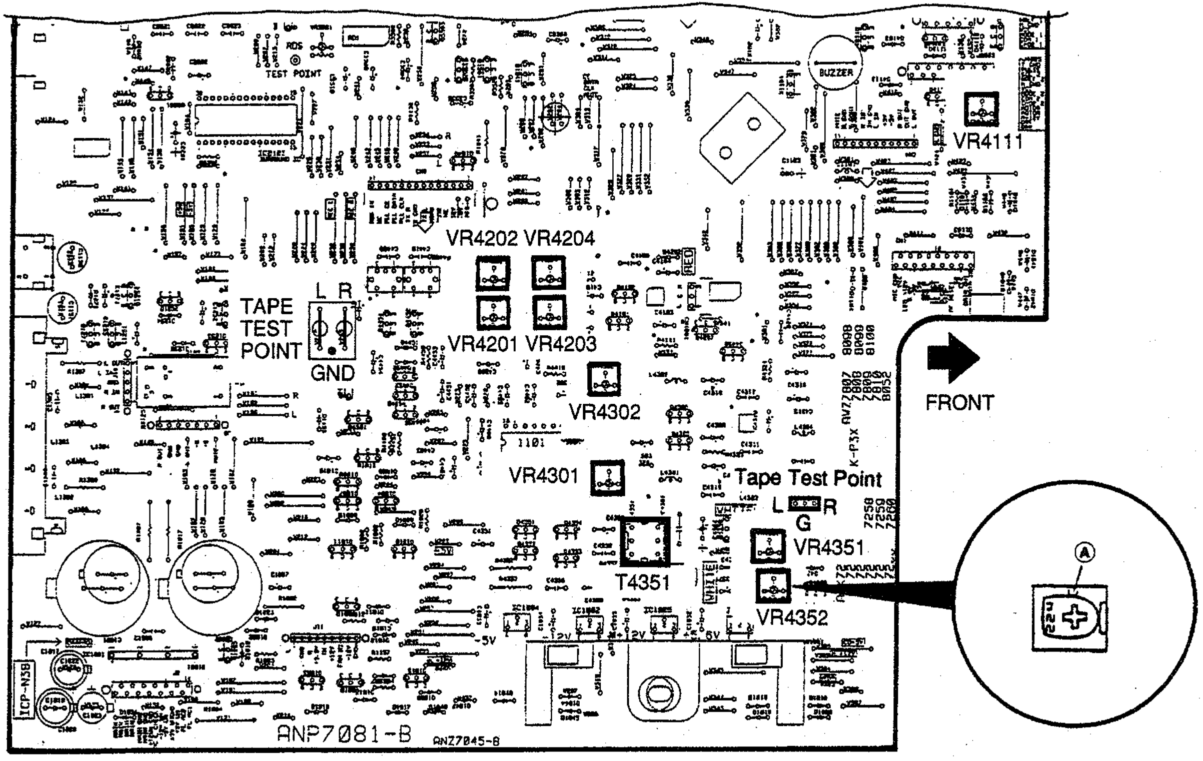
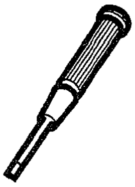
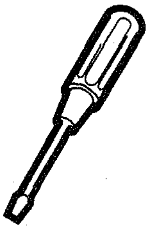
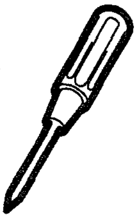
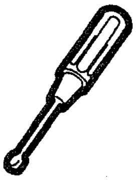
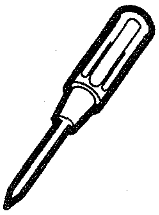
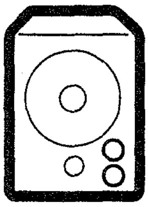
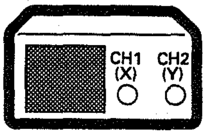
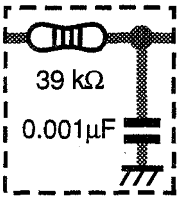

BUZZER
VR4111
VR4202 VR4204
TAPE TEST POINT
L R
GND
VR4201 VR4203
VR4302
VR4301
FRONT
Tape Test Point
L R
G
VR4351
T4351
VR4352
Ⓐ
ANP7081-B
ANZ7045-B

Fig. 2–4 Adjustment Points

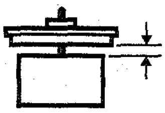
4.3 CD SECTION (CD部の調整)

1. PREPARATIONS (準備)

1.1 Jigs and Measuring Instruments (使用測定器/治工具類)

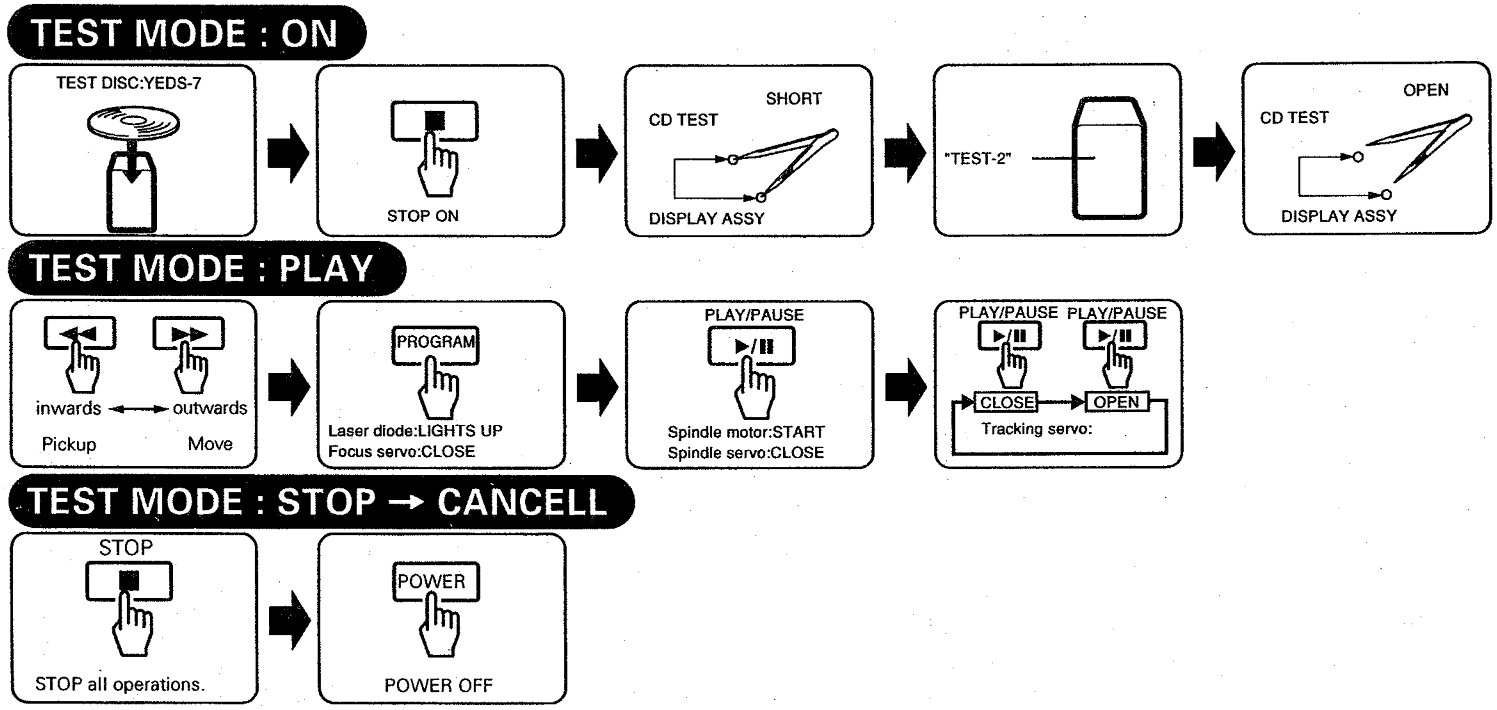
8-cm DISC **(With at least about 20 minutes recording)** (20分程度信号の入ったディスク)	CD TEST DISC (YEDS-7)	 ⊖ Precise screwdriver	 ⊖ screwdriver (small)	 ⊕ screwdriver (medium)
 **Ball point hexagon wrench** **(size: 1.5mm)** **GGK1002** ボールポイント付 六角ドライバー（対辺 1.5mm）	 ⊕ screwdriver (large)	 Low-frequency oscillator	 Dual-trace oscilloscope (10 : 1 probe)	 Low pass filter (39 kΩ + 0.001μF)

1.2 Necessary Adjustment Points（調整に必要な項目）

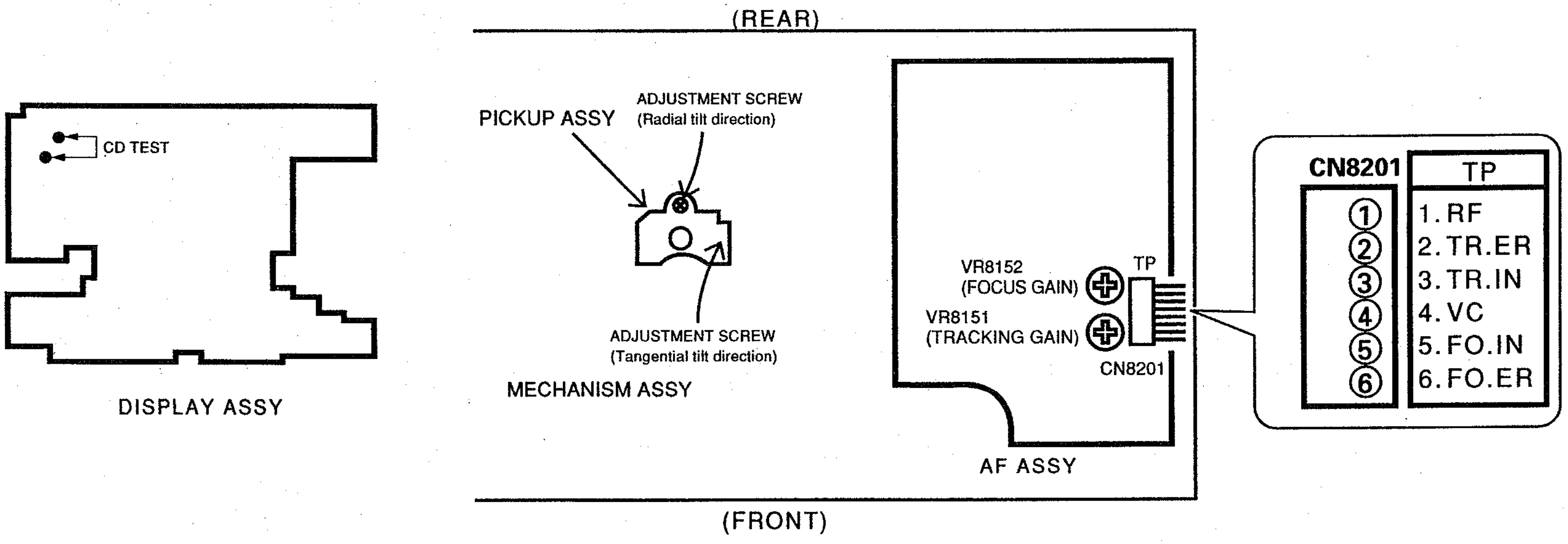
When (このような時)	Adjustment points
Exchange PICKUP (ピックアップを交換した時)	1.2.3.4.5.6. → Page 59～61
Exchange AF ASSY (AF ASSYを交換した時)	1.2.3.4.5.6. → Page 59～61
Exchange SERVO MECH ASSY (サーボメカ ASSYを交換した時)	1.2.3.4.5.6. → Page 59～61
Exchange SPINDLE MOTOR (スピンドルモーターを交換した時)	 ADJ → Page 10

2. ADJUSTMENT (調整)

2.1 How to Start/Cancel Test Mode （テストモードの設定/解除）

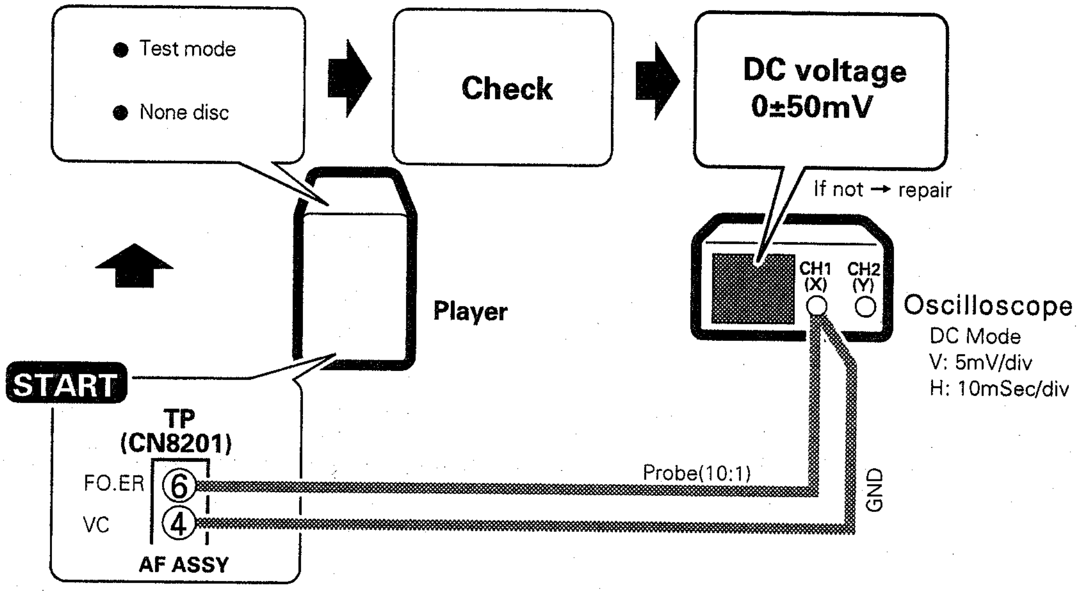

TEST MODE : ON
TEST DISC:YEDS-7
STOP ON
CD TEST
SHORT
DISPLAY ASSY
"TEST-2"
CD TEST
OPEN
DISPLAY ASSY
TEST MODE : PLAY
inwards
outwards
Pickup
Move
PROGRAM
Laser diode:LIGHTS UP
Focus servo:CLOSE
PLAY/PAUSE
Spindle motor:START
Spindle servo:CLOSE
PLAY/PAUSE
PLAY/PAUSE
CLOSE
OPEN
Tracking servo:
TEST MODE : STOP → CANCELL
STOP
STOP all operations.
POWER
POWER OFF

2.2Adjustment Locations（テストポイントと調整用VRの位置）

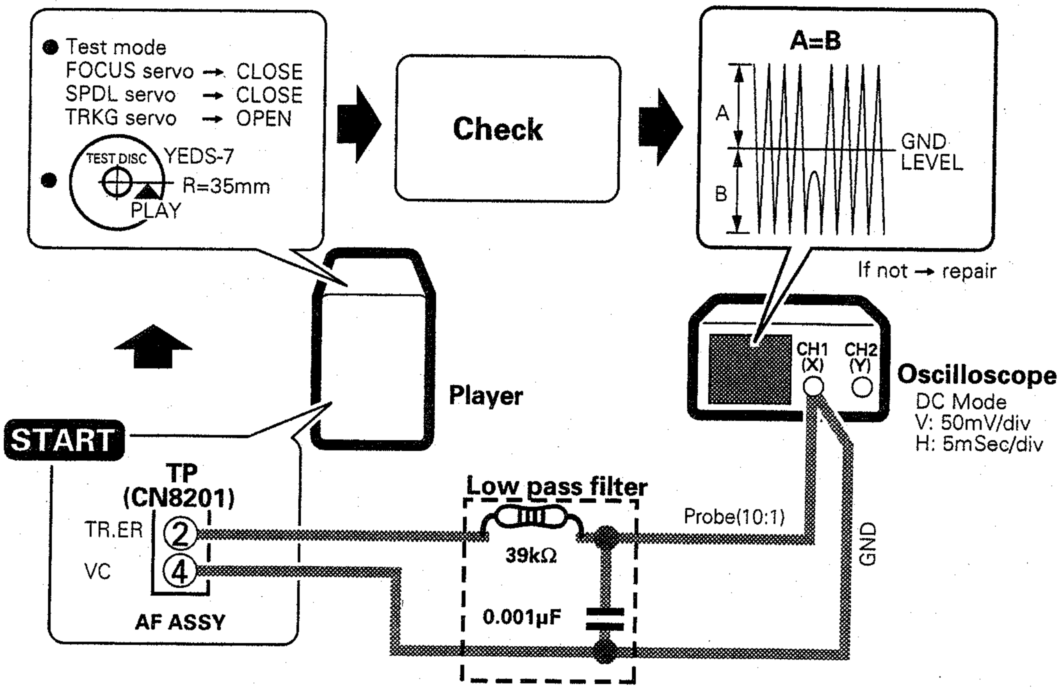

(REAR)
CD TEST
DISPLAY ASSY
PICKUP ASSY
ADJUSTMENT SCREW
(Radial tilt direction)
ADJUSTMENT SCREW
(Tangential tilt direction)
MECHANISM ASSY
VR8152
(FOCUS GAIN)
VR8151
(TRACKING GAIN)
TP
CN8201
AF ASSY
(FRONT)
CN8201
TP
①
②
③
④
⑤
⑥
1. RF
2. TR.ER
3. TR.IN
4. VC
5. FO.IN
6. FO.ER

2.3 Check and Adjustment (確認、調整)

1. Focus Offset Check
(フォーカスオフセット確認)

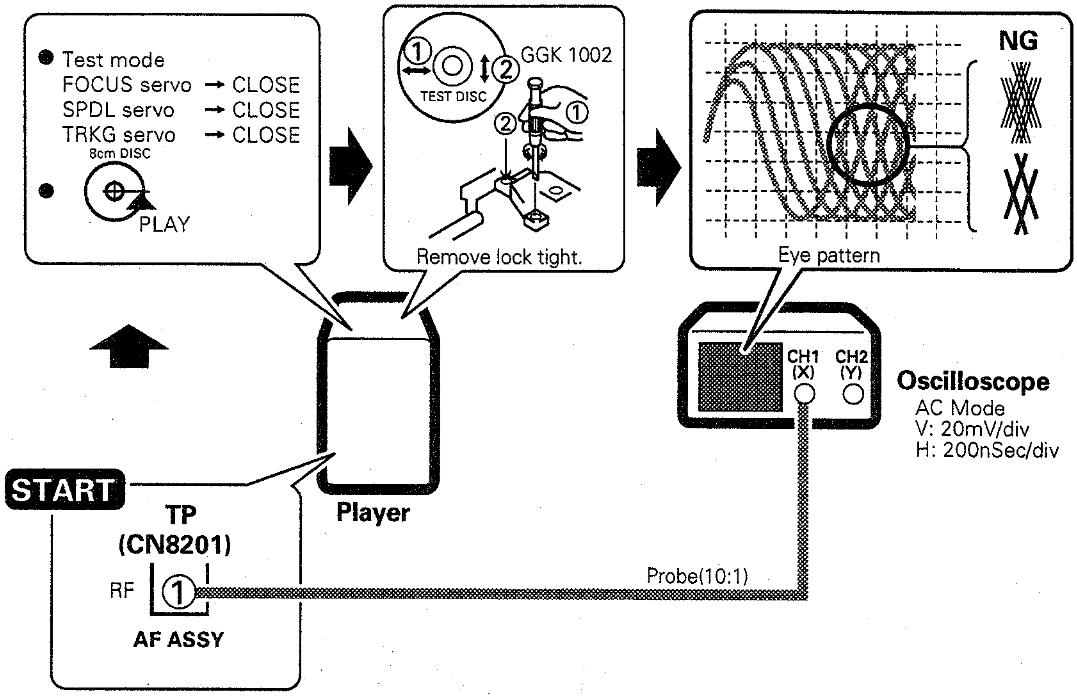

● Test mode
● None disc
Check
DC voltage
0±50mV
If not → repair
Player
CH1 (X)
CH2 (Y)
Oscilloscope
DC Mode
V: 5mV/div
H: 10mSec/div
START
TP
(CN8201)
FO.ER
⑥
VC
④
AF ASSY
Probe(10:1)
GND

2. Tracking Error Balance Check
(トラッキングエラーバランス確認)


● Test mode
FOCUS servo → CLOSE
SPDL servo → CLOSE
TRKG servo → OPEN
● TEST DISC YEDS-7
R=35mm
PLAY
Check
A=B
A
B
GND LEVEL
If not → repair
Player
CH1 (X)
CH2 (Y)
Oscilloscope
DC Mode
V: 50mV/div
H: 5mSec/div
START
TP
(CN8201)
TR.ER
②
VC
④
AF ASSY
Low pass filter
39kΩ
0.001μF
Probe(10:1)
GND

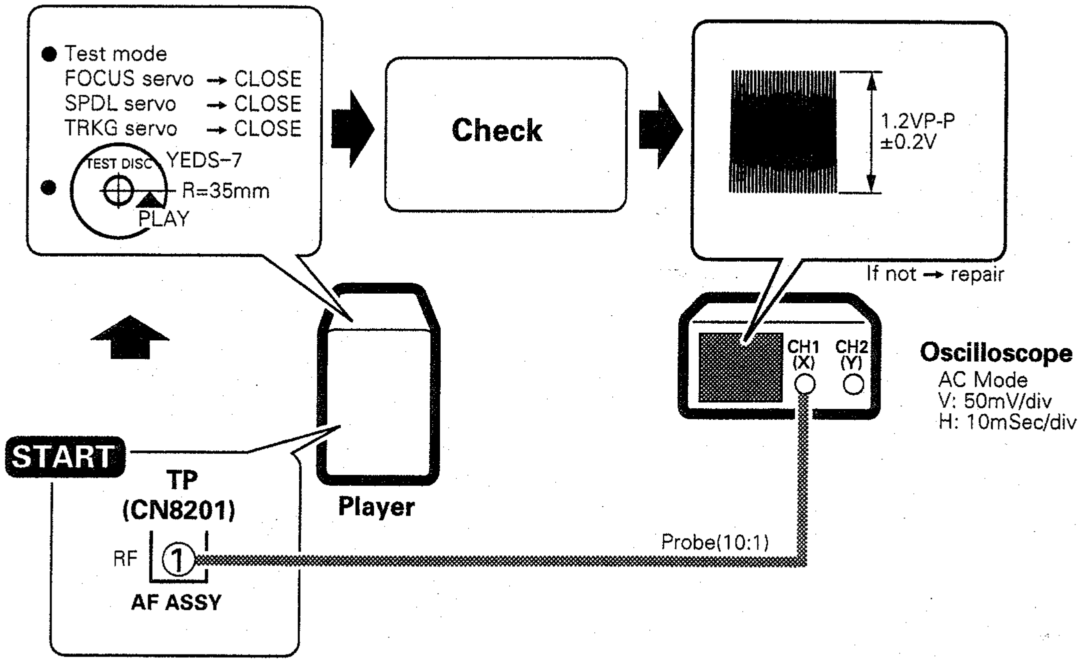
3. Pickup ①Radial / ②Tangential Direction Tilt Adjustment

(ピックアップ①ラジアル方向②タンジェンシャル方向の傾き調整)


● Test mode
FOCUS servo → CLOSE
SPDL servo → CLOSE
TRKG servo → CLOSE
8cm DISC
● PLAY
①
TEST DISC
②
GGK 1002
①
②
Remove lock tight.
NG
Eye pattern
CH1 (X)
CH2 (Y)
Oscilloscope
AC Mode
V: 20mV/div
H: 200nSec/div
START
TP
(CN8201)
RF ①
AF ASSY
Player
Probe(10:1)

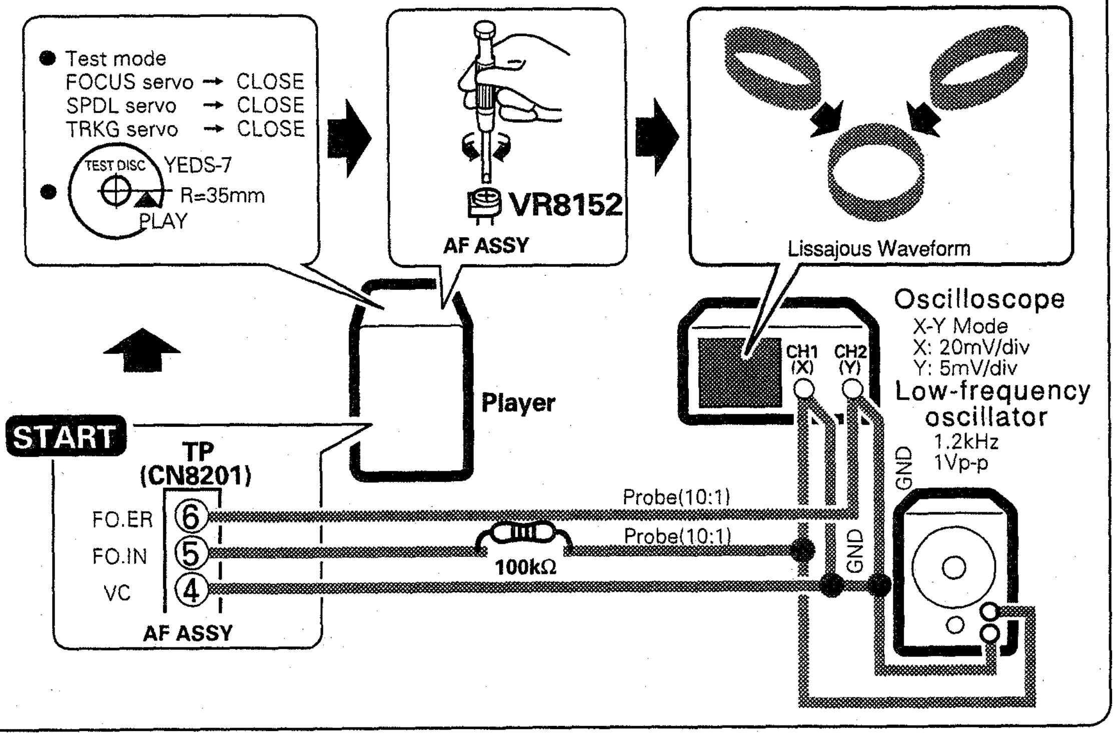
4. RF Level Check

(RFレベル確認)


● Test mode
FOCUS servo → CLOSE
SPDL servo → CLOSE
TRKG servo → CLOSE
TEST DISC
YEDS-7
● R=35mm
PLAY
Check
1.2VP-P
±0.2V
If not → repair
CH1 (X)
CH2 (Y)
Oscilloscope
AC Mode
V: 50mV/div
H: 10mSec/div
START
TP
(CN8201)
RF ①
AF ASSY
Player
Probe(10:1)

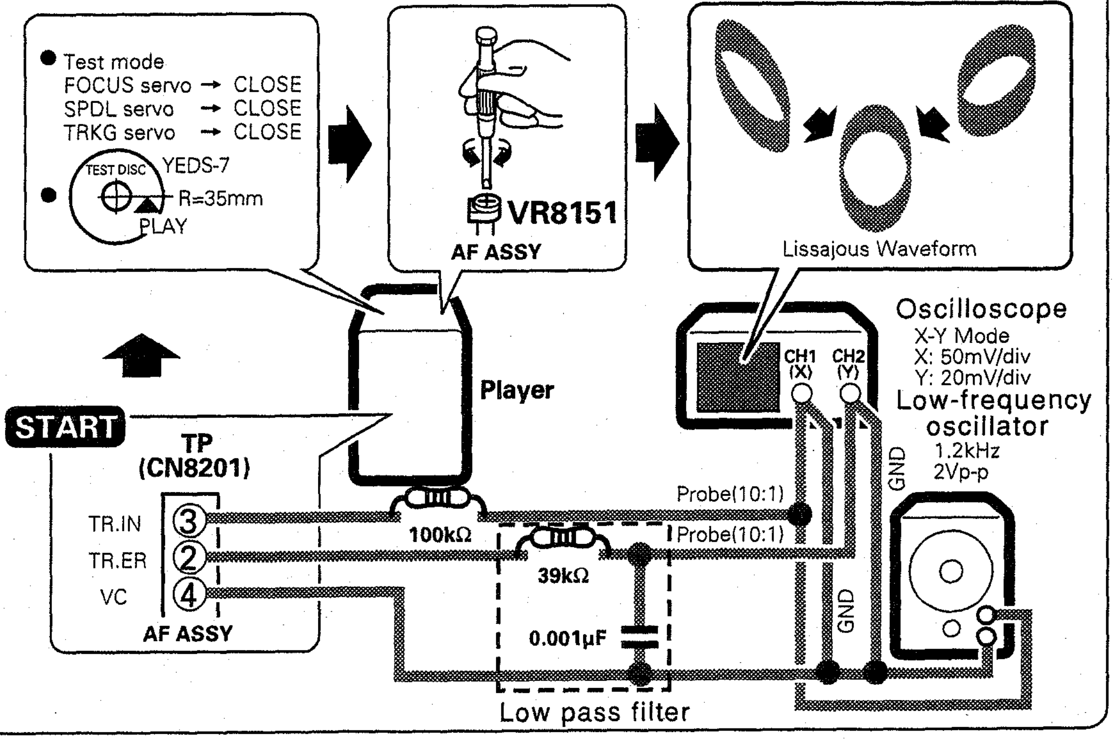
5. Focus Servo Loop Gain Adjustment

(フォーカスサーボループゲイン確認)


● Test mode
FOCUS servo → CLOSE
SPDL servo → CLOSE
TRKG servo → CLOSE
TEST DISC
YEDS-7
R=35mm
PLAY
VR8152
AF ASSY
Lissajous Waveform
Oscilloscope
X-Y Mode
X: 20mV/div
Y: 5mV/div
CH1 (X)
CH2 (Y)
Low-frequency oscillator
1.2kHz
1Vp-p
GND
GND
Player
START
TP (CN8201)
FO.ER ⑥
FO.IN ⑤
VC ④
AF ASSY
Probe(10:1)
Probe(10:1)
100kΩ

6. Tracking Servo Loop Gain Adjustment

(トラッキングサーボループゲイン確認)


● Test mode
FOCUS servo → CLOSE
SPDL servo → CLOSE
TRKG servo → CLOSE
TEST DISC
YEDS-7
R=35mm
PLAY
VR8151
AF ASSY
Lissajous Waveform
Oscilloscope
X-Y Mode
X: 50mV/div
Y: 20mV/div
CH1 (X)
CH2 (Y)
Low-frequency oscillator
1.2kHz
2Vp-p
GND
GND
Player
START
TP (CN8201)
TR.IN ③
TR.ER ②
VC ④
AF ASSY
Probe(10:1)
Probe(10:1)
100kΩ
39kΩ
0.001μF
Low pass filter

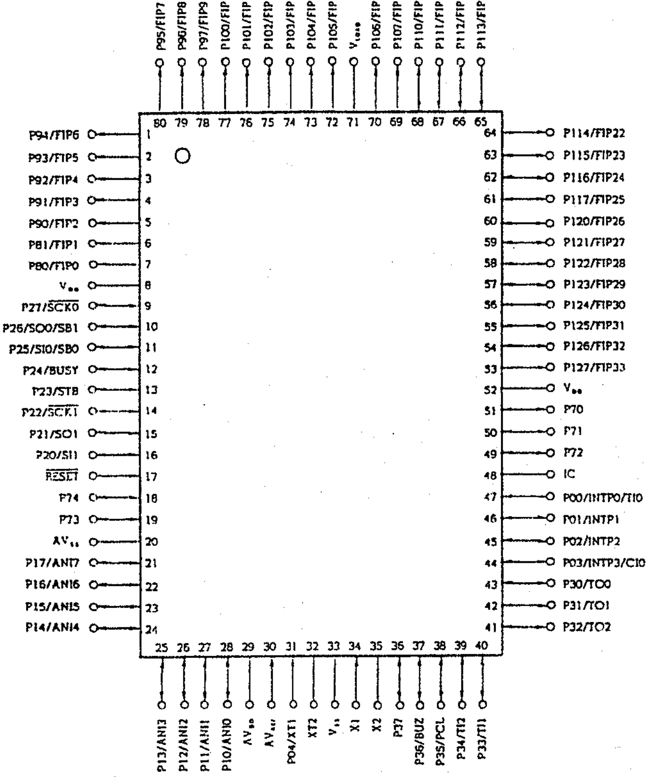
5. IC INFORMATION

- *The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.*

■ PD4665A (IC1101 : AF ASSY)

• System Control Micro–computer

- Pin Assignment (Top view)


P95/FIP7
P96/FIP8
P97/FIP9
P100/FIP10
P101/FIP11
P102/FIP12
P103/FIP13
P104/FIP14
P105/FIP15
VLOAD
P106/FIP16
P107/FIP17
P110/FIP18
P111/FIP19
P112/FIP20
P113/FIP21
80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65
P94/FIP6 1
P93/FIP5 2
P92/FIP4 3
P91/FIP3 4
P90/FIP2 5
P81/FIP1 6
P80/FIP0 7
VDD 8
P27/SCK0 9
P26/SO0/SB1 10
P25/SI0/SB0 11
P24/BUSY 12
P23/STB 13
P22/SCK1 14
P21/SO1 15
P20/SI1 16
RESET 17
P74 18
P73 19
AVSS 20
P17/ANI7 21
P16/ANI6 22
P15/ANI5 23
P14/ANI4 24
64 P114/FIP22
63 P115/FIP23
62 P116/FIP24
61 P117/FIP25
60 P120/FIP26
59 P121/FIP27
58 P122/FIP28
57 P123/FIP29
56 P124/FIP30
55 P125/FIP31
54 P126/FIP32
53 P127/FIP33
52 VDD
51 P70
50 P71
49 P72
48 IC
47 P00/INTP0/TI0
46 P01/INTP1
45 P02/INTP2
44 P03/INTP3/CI0
43 P30/TO0
42 P31/TO1
41 P32/TO2
25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
P13/ANI3
P12/ANI2
P11/ANI1
P10/ANI0
AVDD
AVREF
P04/XT1
XT2
VSS
X1
X2
P37
P36/BUZ
P35/PCL
P34/TI2
P33/TI1

Notes:
1. IC (Internally Connected): Connected to Vss.
2. AVDD: Connected to VDD.
3. AVss: Connected to Vss.

- Pin Function

No.	Name	Function	I/O	Description
1	P94	A	O	Switching analog switch output
2	P93	INH	O	Analog switch inhibit output
3	P92	0006 STB	O	PM0006 strobe output
4	P91	CDG MUTE	O	CDG decoder control output
5	P90	SR	O	SR mute output
6	P81	CD $\overline{\text{RESET}}$	O	CD, reset output
7	P80	XTAL ON/$\overline{\text{OFF}}$	O	CD, XTAL ON/OFF
8	VDD	VDD	–	+5V
9	P27	BUS CLK	I	DISPLAY μ-COM. communication CLK
10	P26	BUS DATA OUT	O	DISPLAY μ-COM. DATA OUT
11	P25	BUS DATA IN	I	DISPLAY μ-COM. DATA IN
12	P24	GFS	I	GFS detection input
13	P23	CD XLT	O	CD control (Latch)
14	P22	CD CLK	O	CD control (Clock)
15	P21	CD DATA	O	CD control (Data)
16	P20	CD SQSO	I	Sub code Q data serial input
17	$\overline{\text{RESET}}$	$\overline{\text{RESET}}$	–	Reset
18	P74	FCOK	I	Focus OK input
19	P73	LPS3	I	CD mechanism control input
20	AVss	–	–	GND
21	P17	LPS2	I	CD mechanism control input
22	P16	LPS1	I	CD mechanism control input
23	P15	LDON	O	Laser diode ON/OFF
24	P14	INSD	I	CD mechanism inside detection input
25	P13	LIN	O	CD loading in
26	P12	LOUT	O	CD loading out
27	P11	TH DETECT	I	Input for the temperature detection output by means of a thermistor
28	P10	FUNC MUTE	O	Function mute output
29	AVDD	VDD	–	+5V
30	AVREF	VDD	–	
31	P04	SENS	I	CD LSI operation status multi-mode input
32	XT2	–	–	————
33	Vss	–	–	GND
34	X1	XTAL	–	Connected to the oscillator
35	X2	XTAL	–	

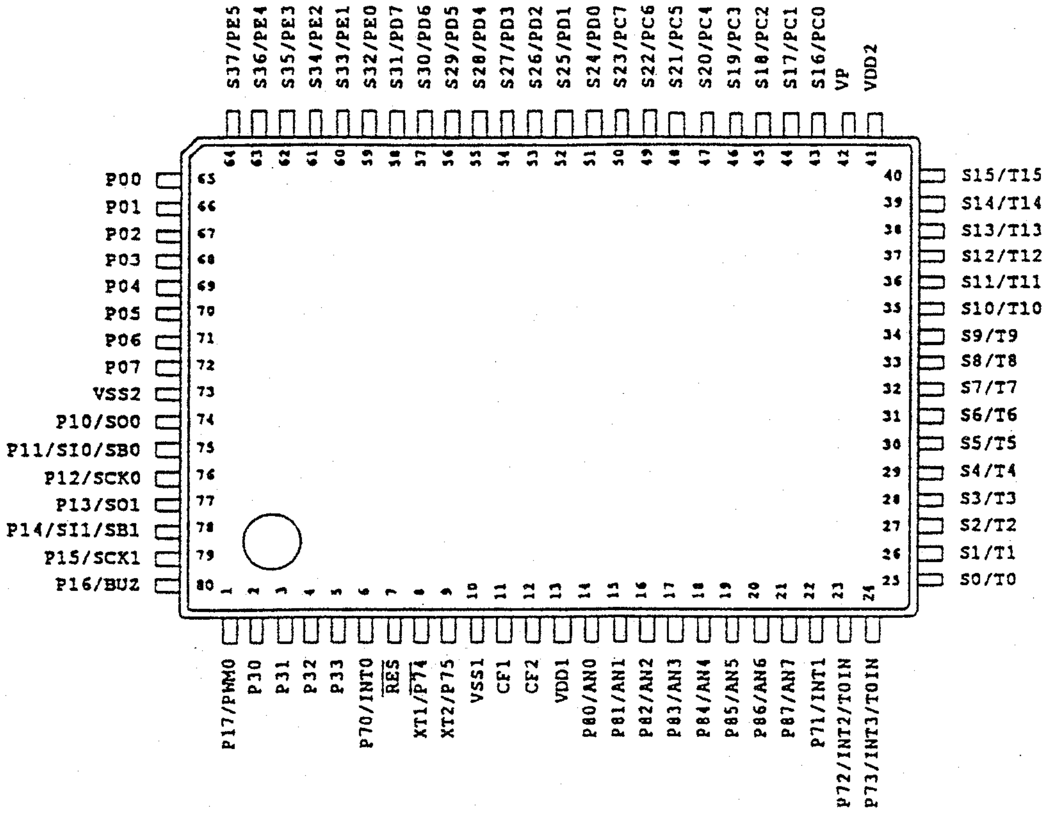
No.	Name	Function	I/O	Description
36	P37	MOTOR	O	Deck motor control
37	P36	BEEP	O	BEEP signal output
38	P35	1MODE	I	Head base position detection switch input (Mecha I)
39	P34	1PULSE	I	Reel pulse input (Mecha I)
40	P33	1HALF	I	Cassette half detection switch (Mecha I)
41	P32	1SOL	O	Solenoid control output (Mecha I)
42	P31	2HALF	I	Cassette half detection switch input (Mecha II)
43	P30	2SOL	O	Solenoid control output (Mecha II)
44	P03	2PULSE	I	Reel pulse input (Mecha II)
45	P02	SCOR	I	Subcode synch S0+ S1 input
46	P01	2MODE	I	Head base position detection switch input (Mecha II)
47	P00	RDS CLK	I	RDS clock input (Not used)
48	IC	–	–	GND
49	P72	2CRO2	I	CrO2 tape detection switch input (Mecha II)
50	P71	ARF	I	FWD REC prevention tab detection switch
51	P70	ARR	I	REV REC prevention tab detection switch
52	VDD	VDD	–	+5V
53	P127	1CRO2	I	CrO2 tape detection switch input (Mecha I)
54	P126	VOL UP	O	VOLUME UP
55	P125	VOL DOWN	O	VOLUME DOWN
56	P124	BEAT CUT	O	Switching beat cut output
57	P123	BIAS	O	REC BIAS circuit control output
58	P122	REC	O	Equalizer circuit control output for CrO2 tape when recording.
59	P121	DOLBY ON/OFF	O	CXA1101 Dolby NR ON/OFF control output
60	P121	REC MUTE	O	REC MUTE circuit control output

No.	Name	Function	I/O	Description
61	P117	DOLBY PB/$\overline{\text{REC}}$	O	CXA1101 Playback/Recording control output
62	P116	PB CRO2	O	Equalizer circuit control output for CrO2 tape when playback.
63	P115	PB 1/2	O	Mecha I, II control output when playback.
64	P114	MS	I	MS signal input
65	P113	STEREO	I	STEREO status discrimination input
66	P112	RDS ID	I	RDS tuning status discrimination input (Not used)
67	P111	RDS DATA	I	RDS data input (Not used)
68	P110	TUNE	I	TUNE status discrimination input
69	P107	TX MUTE	O	Tuner mute output
70	P107	MONO	O	Execution MONO control output
71	VLOAD	–	–	GND
72	P105	MPX	O	MPX ON/OFF output
73	P104	SP RY	O	Speaker relay control output
74	P103	FAN HI SPEED	O	Fan motor high speed control output
75	P102	POWER ON/OFF	O	LOCAL SW control output
76	P101	CDG CE	O	CDG decoder control chip enable output
77	P100	0006 CLK	O	PM0006/PLL/CDG control clock output
78	P97	0006 DA	O	PM0006/PLL/CDG control data output
79	P96	PLL CE	O	PLL IC control chip enable output
80	P95	B	O	Switching analog switch output

■ PDC030B (IC1901 : DISPLAY ASSY)

• Display Control Micro–computer

• Pin Assignment (Top view)


S37/PE5
S36/PE4
S35/PE3
S34/PE2
S33/PE1
S32/PE0
S31/PD7
S30/PD6
S29/PD5
S28/PD4
S27/PD3
S26/PD2
S25/PD1
S24/PD0
S23/PC7
S22/PC6
S21/PC5
S20/PC4
S19/PC3
S18/PC2
S17/PC1
S16/PC0
VP
VDD2
P00
P01
P02
P03
P04
P05
P06
P07
VSS2
P10/SO0
P11/SI0/SB0
P12/SCK0
P13/SO1
P14/SI1/SB1
P15/SCK1
P16/BUZ
S15/T15
S14/T14
S13/T13
S12/T12
S11/T11
S10/T10
S9/T9
S8/T8
S7/T7
S6/T6
S5/T5
S4/T4
S3/T3
S2/T2
S1/T1
S0/T0
P17/PWM0
P30
P31
P32
P33
P70/INT0
RES
XT1/P74
XT2/P75
VSS1
CF1
CF2
VDD1
P80/AN0
P81/AN1
P82/AN2
P83/AN3
P84/AN4
P85/AN5
P86/AN6
P87/AN7
P71/INT1
P72/INT2/T0IN
P73/INT3/T0IN

• Pin Function

No.	Name	Function	I/O	Description
1	P17	LED10	O	LED ON output
2	P30	KEY0	I	key input
3	P31	–	–	————
4	P32	AF RESET	O	AF RESET output
5	P33	–	–	————
6	P70	POW ON/OFF	–	POWER ON/OFF
7	$\overline{\text{RES}}$	$\overline{\text{RESET}}$	–	Reset
8	XT1	KEY1	I	Key input
9	XT2	KEY2	I	
10	VSS1	VSS1	–	GND

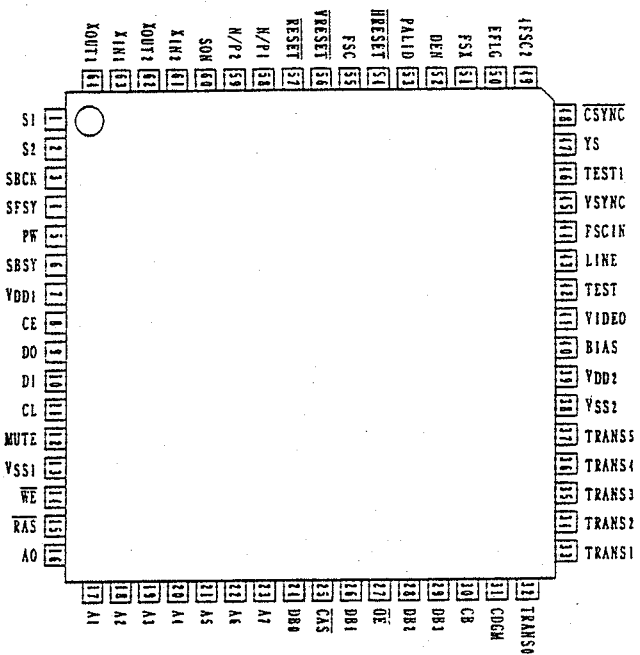
No.	Name	Function	I/O	Description
11	CF1	XTAL1	–	X'TAL input
12	CF2	XTAL2	–	
13	VDD1	VDD1	–	+5V
14	P80	KEY3	I	Key input
15	P81	KEY4	I	
16	P82	–	–	————
17 | 21	P83 | P87	SPA2 | SPA6	I	Spectrum analyzer input
22	P71	AC	I	AC input
23	P72	–	–	————
24	P73	REMOCON	I	Remote control signal input

No.	Name	Function	I/O	Description
25 | 33	T0 | T8	G1 | G9	O	FL grid
34	T9	P16/G10	O	
35 | 39	T10 | T14	G11 | G15	O	
40	T15	P24	O	FL segment
41	VDD2	VDD2	–	+5V
42	VP	VFDP	–	–30V
43 | 49	PC0 | PC6	P23 | P17	O	FL segment
50	PC7	P02	O	
51 | 58	PD0 | PD7	P15 | P8	O	
59 | 63	PE0 | PE4	P7 | P3	O	
64	PE5	P1	O	
65 | 69	P00 | P04	LED1 | LED5	O	LED ON output
70	P05	LED12	O	
71	P06	LED13		
72	P07	LED11		
73	VSS2	VSS2	–	GND
74	P10	DATA OUT	O	AF μ-COM. DATA OUT
75	P11	DATA IN	I	AF μ-COM. DATA IN
76	P12	CLK	O	AF μ-COM. communication CLK
77 | 80	P13 | P16	LED6 | LED9	O	LED ON output

■ LC7872E (IC8601 : AF ASSY)

• CD Graphics Signal Processor

• Pin Assignment (Top view)


XOUT1 64
XIN1 63
XOUT2 62
XIN2 61
SON 60
N/P2 59
N/P1 58
RESET 57
VRESET 56
FSC 55
HRESET 54
PALID 53
DEN 52
FSX 51
EFLG 50
4FSC2 49
S1 1
S2 2
SBCK 3
SFSY 4
PW 5
SBSY 6
VDD1 7
CE 8
DO 9
DI 10
CL 11
MUTE 12
VSS1 13
WE 14
RAS 15
A0 16
A1 17
A2 18
A3 19
A4 20
A5 21
A6 22
A7 23
DB0 24
CAS 25
DB1 26
OE 27
DB2 28
DB3 29
CB 30
CDGM 31
TRANS0 32
CSYNC 48
YS 47
TEST1 46
VSYNC 45
FSCIN 44
LINE 43
TEST 42
VIDEO 41
BIAS 40
VDD2 39
VSS2 38
TRANS5 37
TRANS4 36
TRANS3 35
TRANS2 34
TRANS1 33

• Pin Function

No.	Pin Name	I/O	Description			
1	S1	I	DSP selection terminal for CD	S2	S1	DSP for CD
				0	0	LC786IN/67
2	S2	I		1	0	LC7860K/63
				1	1	LC786/69/681
3	SBCK	O	Subcode R to W readout clock			
4	SFSY	I	Subcode frame sync signal			
5	PW	I	Subcode R to W data			
6	SBSY	I	Subcode block sync signal			
7	VDD1	–	Digital power supply			
8	CE	I	Serial input or serial output control			
9	DO	O	Serial data output			
10	DI	I	Serial data input			
11	CL	I	Clock for serial data			
12	MUTE	I	Control signal for making the subcode data ineffective			
13	VSS1	–	Digital GND			
14	$\overline{\text{WE}}$	O	DRAM control			
15	$\overline{\text{RAS}}$	O	DRAM control			
16	A0	O	DRAM address			
17	A1	O	DRAM address			
18	A2	O	DRAM address			
19	A3	O	DRAM address			
20	A4	O	DRAM address			
21	A5	O	DRAM address			
22	A6	O	DRAM address			
23	A7	O	DRAM address			
24	DBO	I/O	DRAM data			
25	$\overline{\text{CAS}}$	O	DRAM control			
26	DB1	I/O	DRAM data			
27	$\overline{\text{OE}}$	O	DRAM control			
28	DB2	I/O	DRAM data			
29	DB3	I/O	DRAM data			
30	CB	I	L: Normal mode, H: Colorbar output (built–in pull–down resistor)			
31	CDGM	O	H: CDG disc			
32	TRANS 0	O	Transparency digital output			
33	TRANS 1	O	Transparency digital output			
34	TRANS 2	O	Transparency digital output			
35	TRANS 3	O	Transparency digital output			
36	TRANS 4	O	Transparency digital output			
37	TRANS 5	O	Transparency digital output			
38	VSS2	–	GND for composit video DAC			
39	VDD2	–	Power supply for composit video DAC			
40	BIAS	O	Ripple rejection capacitor connection			
41	VIDEO	O	Composit video output (8bits DAC output)			
42	TEST	I	Test pin Normally "L" (built–in pull–down resistor)			
43	LINE	I	NP2 terminal H: (H: 263H, L: 262H) NP2 terminal L: (H: 312H, L: 314H)			
44	FSCIN	I	Sub carrier clock input (built–in feedback resistor)			

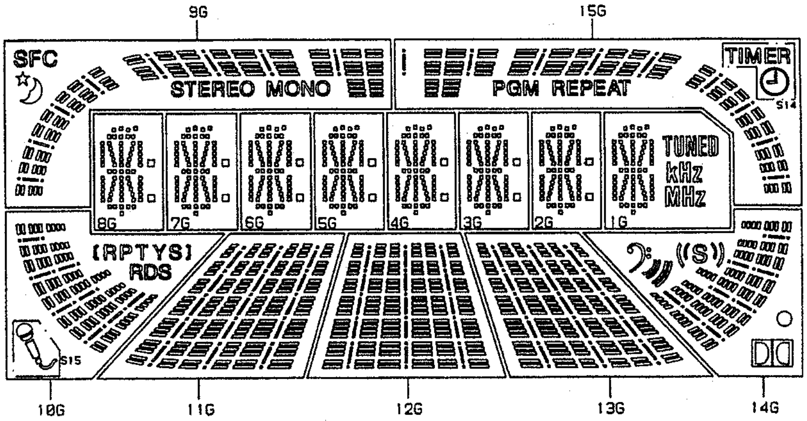
No.	Pin Name	I/O	Description
45	VSYNC	O	Vertical sync signal output
46	TEST1	I	Test pin Normally "L" (built–in pull–down resistor)
47	YS	O	Superimpose control output
48	$\overline{\text{CSYNC}}$	O	Composite sync signal output
49	4FSC2	I	External clock input when superimpose (built–in feedback resistor)
50	EFLG	O	Error condition monitor
51	FSX	O	Error condition monitor trigger
52	DEN	I	Disc information display enable (built–in pull–down resistor) H: BGC, L: enable
53	PALID	I	External control when superimpose PAL (built–in pull–up resistor)
54	$\overline{\text{HRESET}}$	I	Horizontal timing external control
55	FSC	O	Sub carrier clock output NTSC mode: 3.579545 MHz PAL mode: 4.433619 MHz
56	$\overline{\text{VRESET}}$	I	Vertical timing external control
57	$\overline{\text{RESET}}$	I	Reset input
58	N/P1	I	NTSC/PAL selection terminal (RGB encoder) H: NTSC, L: PAL
59	N/P2	I	NTSC/PAL selection terminal (CD–G decoder) H: NTSC, L: PAL
60	SON	I	Superimpose ON/OFF
61	XIN2	I	Crystal resonator 17.734476 MHz (for PAL)
62	XOUT2	O	Crystal resonator 17.734476 MHz (for PAL)
63	XIN1	I	Crystal resonator 14.31818 MHz (for NTSC)
64	XOUT1	O	Crystal resonator 14.31818 MHz (for NTSC)

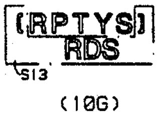
6. FL INFORMATION

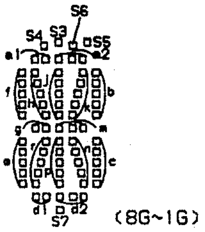
■ AAV7022 (V1701: DISPLAY ASSY)

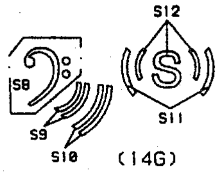
• FL Tube

• Grid Assignment

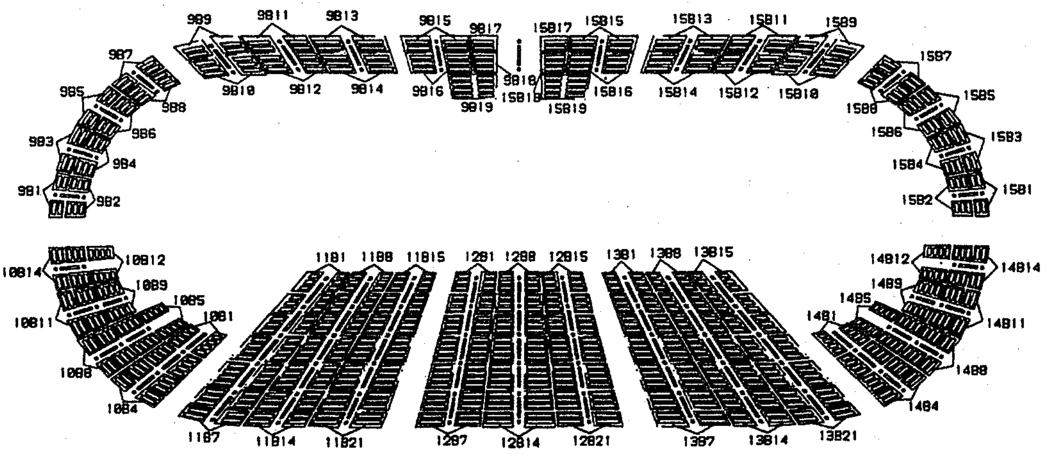

9G
15G
SFC
STEREO MONO
PGM REPEAT
TIMER
S14
TUNED
kHz
MHz
8G
7G
6G
5G
4G
3G
2G
1G
(RPTYS)
RDS
S15
10G
11G
12G
13G
14G

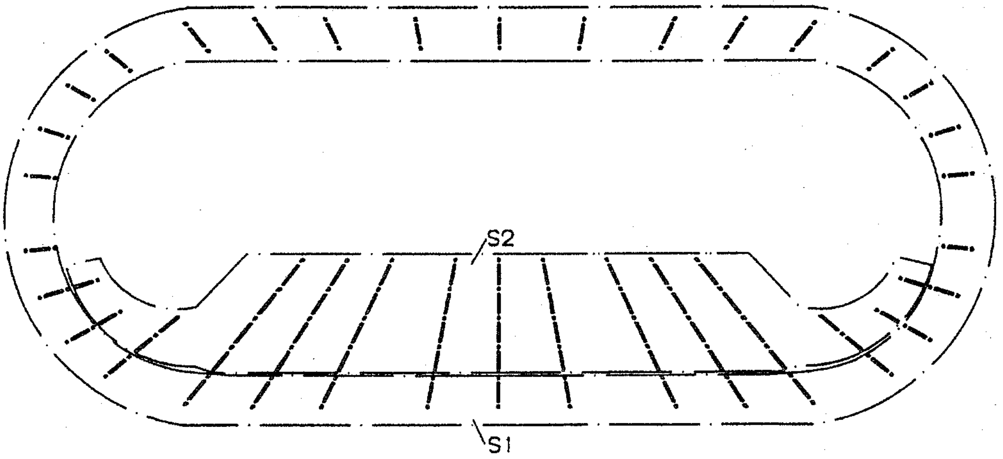

(RPTYS)
RDS
S13
(10G)


S6
S4
S3
S5
a1
a2
f
b
g
m
e
c
d1
d2
S7
(8G~1G)


S12
S8
S11
S9
S10
(14G)

• Segment Assignment

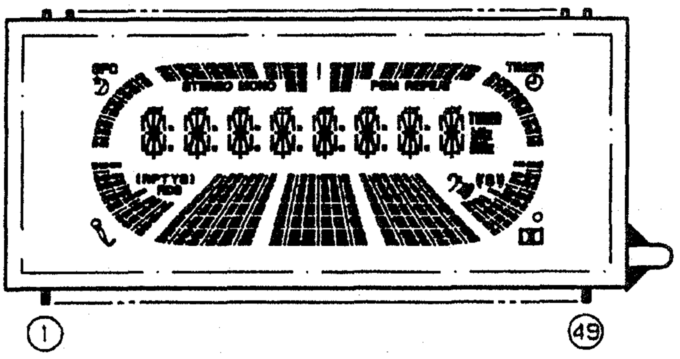

9B9
9B11
9B13
9B15
9B17
15B17
15B15
15B13
15B11
15B9
9B7
15B7
9B5
9B10
9B12
9B14
9B16
9B18
15B18
15B16
15B14
15B12
15B10
15B5
9B8
9B19
15B19
15B8
9B6
15B6
9B3
15B3
9B4
15B4
9B1
15B1
9B2
15B2
10B12
11B1
11B8
11B15
12B1
12B8
12B15
13B1
13B8
13B15
14B12
10B14
14B14
10B9
14B9
10B5
14B5
10B11
10B1
14B1
14B11
10B8
14B8
10B4
14B4
11B7
11B14
11B21
12B7
12B14
12B21
13B7
13B14
13B21



- Anode Connection

	15G	14G	13G	12G	11G	10G	9G	8G~2G	1G
P1	15B11	14B6	13B17	12B17	11B17	10B2	9B9	c	c
P2	15B13	S2	S2	S2	S2	S2	9B11	g	g
P3	15B15	14B9	13B4	12B4	11B4	10B6	9B13	m	m
P4	15B17	14B12	13B11	12B11	11B11	10B9	9B15	coℓ1	kHz
P5	15B18	14B3	13B18	12B18	11B18	10B12	9B17	f	f
P6	15B16	14B7	13B5	12B5	11B5	10B13	9B4	h	h
P7	15B14	14B10	13B12	12B12	11B12	10B10	9B6	j	j
P8	15B12	14B11	13B19	12B19	11B19	10B11	9B8	k	k
P9	15B10	14B13	13B6	12B6	11B6	10B7	9B10	b	b
P10	15B8	14B4	13B13	12B13	11B13	10B3	9B12	S5	S5
P11	15B6	14B8	13B20	12B20	11B20	10B14	9B14	a1	a1
P12	S1	S1	S1	S1	S1	S1	9B16	a2	a2
P13	15B19	14B14	13B7	12B7	11B7	10B8	9B18	S4	S4
P14	**PGM**	○	13B14	12B14	11B14	10B4	9B19	S6	S6
P15	**REPEAT**	DD	13B21	12B21	11B21	S15	**STEREO**	S3	S3
P16	–	–	–	–	–	–	**MONO**	–	TUNED
P17	15B9	14B2	13B10	12B10	11B10	10B5	9B7	n	n
P18	15B4	14B5	13B3	12B3	11B3	10B1	S1	p	p
P19	15B7	14B1	13B16	12B16	11B16	S13	9B5	r	r
P20	15B5	S11	13B9	12B9	11B9	**R**	9B3	e	e
P21	15B2	S12	13B2	12B2	11B2	**P**	9B2	coℓ2	MHz
P22	15B3	S10	13B15	12B15	11B15	**T**	9B1	d2	d2
P23	15B1	S9	13B8	12B8	11B8	**Y**	☽	d1	d1
P24	S14	S8	13B1	12B1	11B1	**S**	**SFC**	S7	S7

- Pin Assignment



- Pin Connection

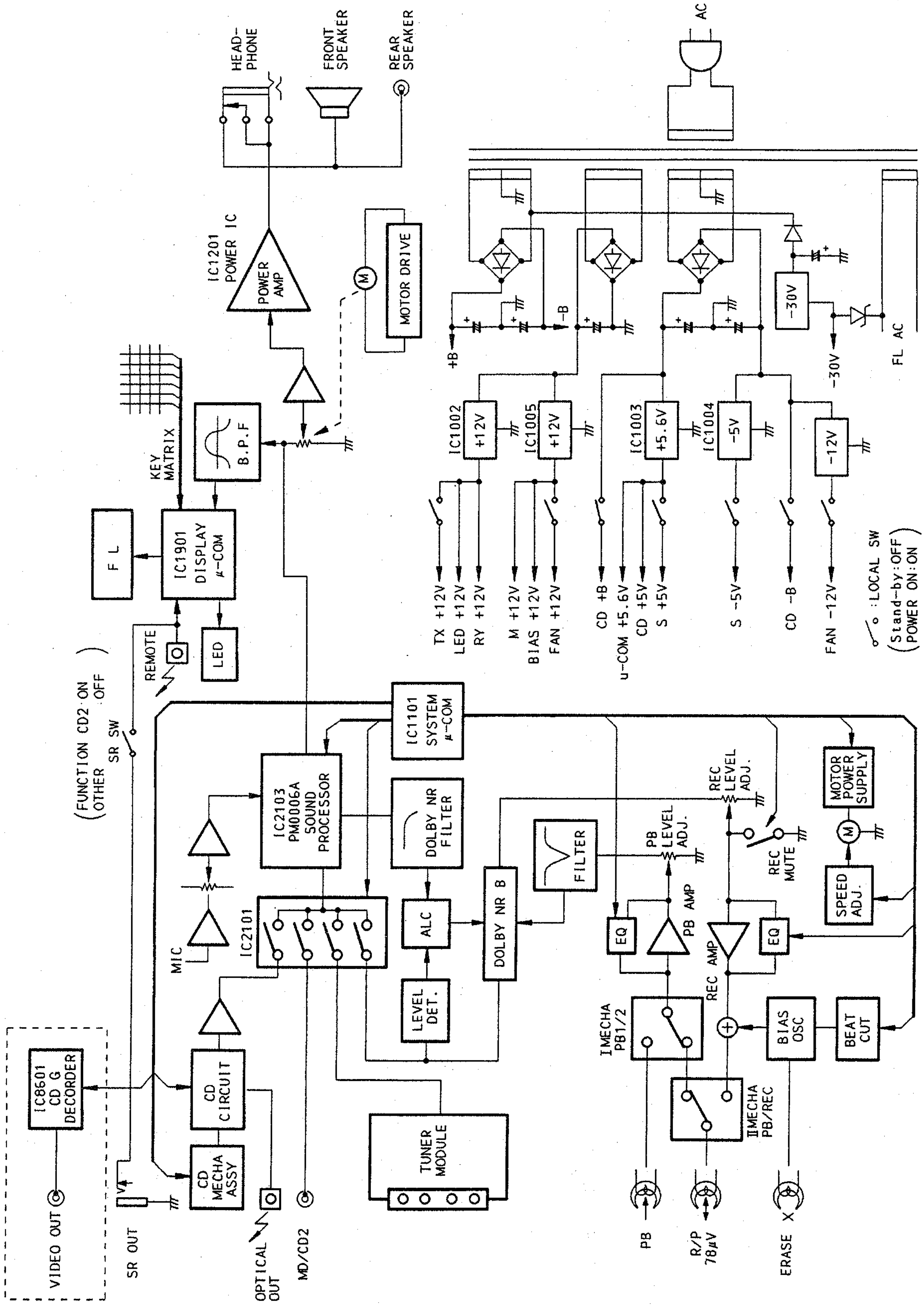
PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
CONNECTION	F1	F1	F1	NP	NP	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11

PIN NO.	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
CONNECTION	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	15G	14G	13G

PIN NO.	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
CONNECTION	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	NP	NP	F2	F2	F2

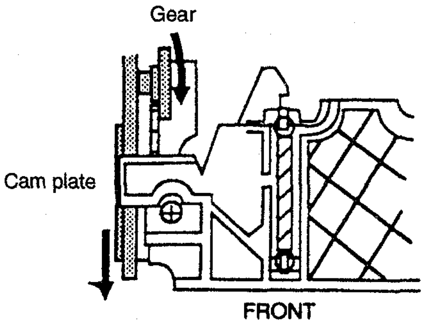
NOTE
1) F1, F2 .... Filament
2) NP.................. No pin
3) DL .... Datum Line
4) 1G to 15G ...... Grid
5) The angle of the field of vision shall be 28.6°on the upper side and 26.6°on the lower side.

7. BLOCK DIAGRAM


HEAD-PHONE
FRONT SPEAKER
REAR SPEAKER
AC
IC1201 POWER IC
POWER AMP
MOTOR DRIVE
M
KEY MATRIX
B.P.F
F L
IC1901 DISPLAY μ-COM
REMOTE
LED
+B
-B
-30V
-30V
FL AC
IC1002 +12V
IC1005 +12V
IC1003 +5.6V
IC1004 -5V
-12V
TX +12V
LED +12V
RY +12V
M +12V
BIAS +12V
FAN +12V
CD +B
u-COM +5.6V
CD +5V
S +5V
S -5V
CD -B
FAN -12V
:LOCAL SW
(Stand-by:OFF POWER ON:ON)
(FUNCTION CD2:ON OTHER :OFF)
SR SW
IC1101 SYSTEM μ-COM
IC2103 PM0006A SOUND PROCESSOR
DOLBY NR FILTER
REC LEVEL ADJ.
MOTOR POWER SUPPLY
M
FILTER
PB LEVEL ADJ.
REC MUTE
SPEED ADJ.
MIC
IC2101
ALC
DOLBY NR B
EQ
PB AMP
REC AMP
EQ
LEVEL DET.
I MECHA PB1/2
BIAS OSC
BEAT CUT
XR-P360G/D/DF ONLY
IC8601 CD G DECORDER
CD CIRCUIT
CD MECHA ASSY
TUNER MODULE
II MECHA PB/REC
VIDEO OUT
SR OUT
OPTICAL OUT
MD/CD2
PB
R/P 78μV
ERASE

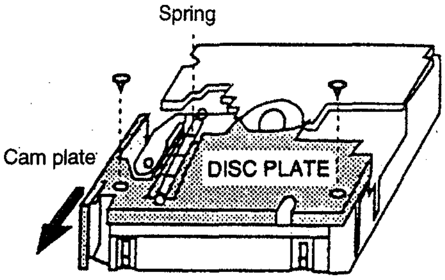
8. DISASSEMBLY

• CD DISC MANUAL REMOVAL METHOD

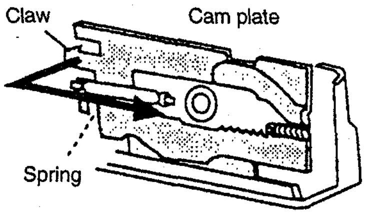

Gear
Cam plate
FRONT

Turn the gear in arrow direction to the front, and move the cam plate to the front. When the gear is turned until the cam plate comes to the very front position (EJECT position), the CD disc will be pulled out.

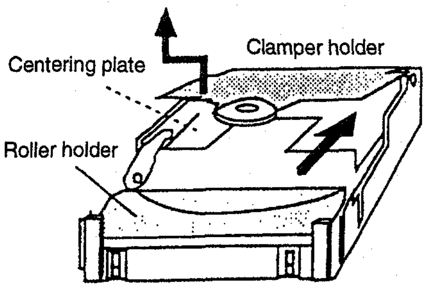
• SERVOMECHANISM EXCHANGE METHOD AND MECHANISM ADJUSTMENT METHOD


Spring
Cam plate
DISC PLATE

Remove the spring and the two screws, and then remove the disc plate. Move the cam plate to the very front position (EJECT position). (Refer to the CD disc manual removal method.)


Claw
Cam plate
Spring

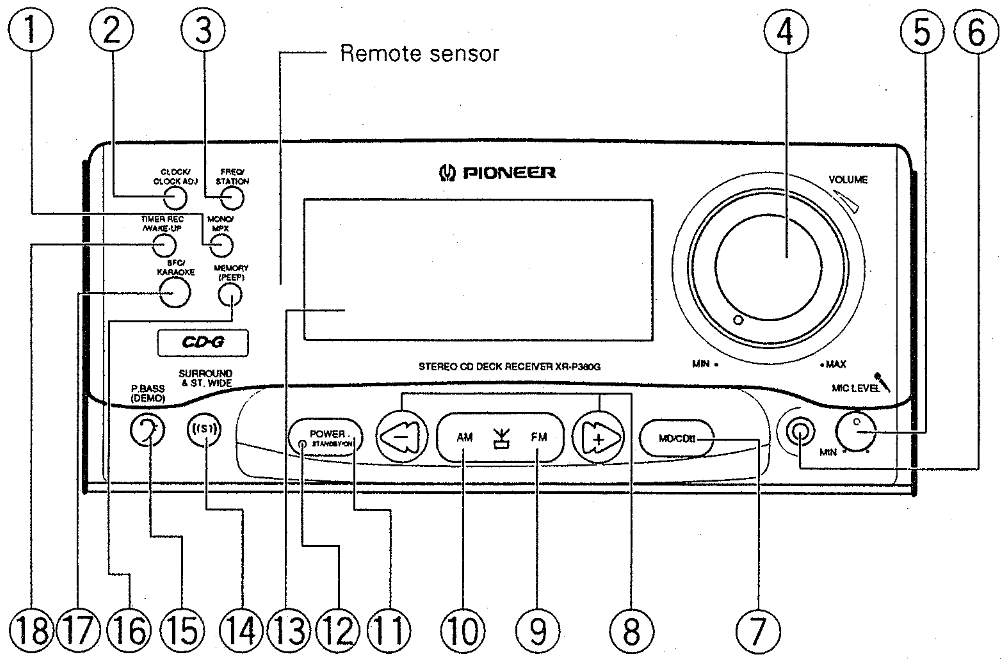
Remove the spring.
Remove to the front while pulling the claw part of the cam plate to the outside.


Centering plate
Clamper holder
Roller holder

Raise the clamper holder lightly, slide it in arrow direction, and remove it. When the centering plate is moved to the rear, the four screws fixing the servomechanism become visible. When these screws are removed, the servomechanism assembly can be removed.
TAN and RAD adjustment are executed from above with the clamper holder and the roller holder removed and only the magnet clamper placed onto the CD disc.

9. PANEL FACILITIES

RECEIVER


①
②
③
Remote sensor
④
⑤
⑥
CLOCK/ CLOCK ADJ
FREQ/ STATION
TIMER REC /WAKE-UP
MONO/ MPX
SFC/ KARAOKE
MEMORY (PEEP)
CD-G
PIONEER
VOLUME
STEREO CD DECK RECEIVER XR-P360G
MIN
MAX
MIC LEVEL
SURROUND & ST. WIDE
P.BASS (DEMO)
POWER STANDBY/ON
AM
FM
MD/CD II
MIN
⑱
⑰
⑯
⑮
⑭
⑬
⑫
⑪
⑩
⑨
⑧
⑦

This illustration shows the XR-P360 G.

RECEIVER

① **MONO button (SD, SL)**
MONO/MPX button (S/DF)
Turn this button on before using sound multiplexation software when the KARAOKE function is being used.

② **CLOCK/CLOCK ADJ button**

③ **FREQ/STATION button**
Each time this button is pressed, the mode changes between FREQUENCY and STATION.

④ **Volume control (VOLUME)**

⑤ **MIC level control**

⑥ **Microphone jack**

⑦ **AUX/CD II button (SD, SL)**
MD/CD II button (S/DF)

⑧ **Tuning/station call (◁ , ▷) buttons**

⑨ **FM button**

⑩ **AM button**

⑪ **POWER STANDBY/ON Switch**

⑫ **STANDBY indicator**
This is the switch for electric power.

ON:	When set to the ON position, power is supplied and the unit becomes operational.
STANDBY:	When set to the STANDBY position, the main power flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain operation readiness (the STANDBY indicator lights).

⑬ **Display**

⑭ **SURROUND & ST. WIDE button**
Each time this button is pressed, the mode changes in the following sequence:

→ ST. WIDE 1 → ST. WIDE 2 → off →

⑮ **P.BASS (DEMO) button**
Each time this button is pressed, the mode changes in the following sequence:

→ P.BASS 1 → P.BASS 2 → off →

⑯ **MEMORY (PEEP) button**
In the STANDBY mode, each time this button is pressed, the operation signal is turned on or off as follows:

→ Signal on → Signal off →

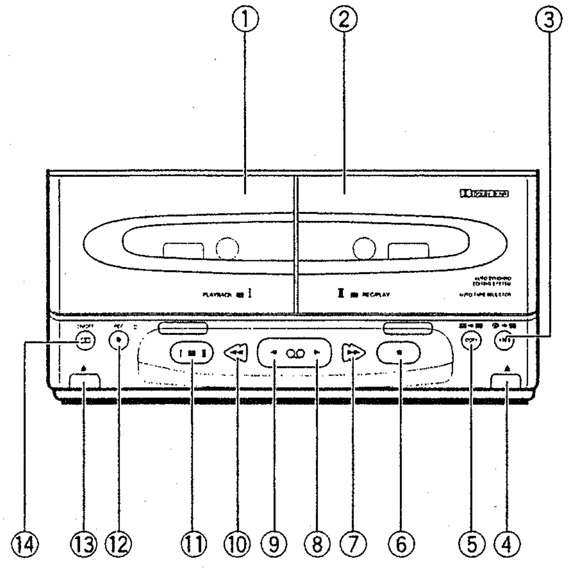
- The operation signal beeps whenever any button is pressed so as to let you know the button has been pushed for sure.

⑰ **SFC/KARAOKE button**
Each time this button is pressed, the mode changes in the following sequence:

→ DISCO → HALL → MOVIE → KARAOKE → off →

⑱ **TIMER REC/WAKE-UP button**

TAPE DECK

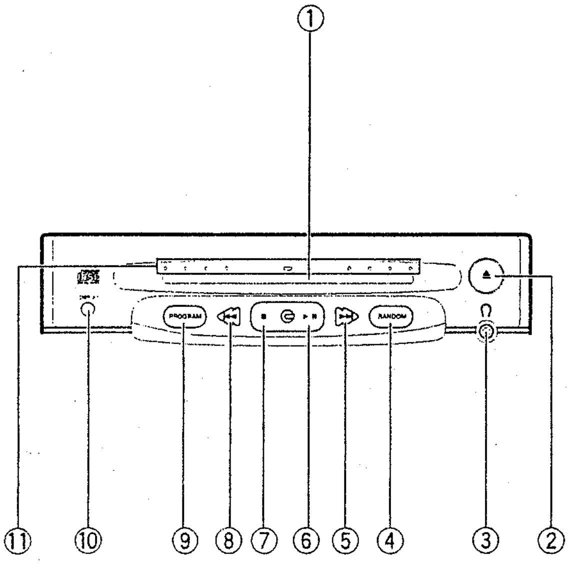


TAPE DECK

① **TAPE I cassette door**
② **TAPE II cassette door**
③ **ASES (Auto Synchro Editing System) button**
④ **TAPE II Eject button (▲)**
⑤ **COPY button**
⑥ **STOP button**
⑦ **Fast forward button (▶▶)**
⑧ **Forward play button (▶)**
⑨ **Reverse play button (◀)**
⑩ **Rewind button (◀◀)**
⑪ **TAPE I/II selector button**
⑫ **Rec standby button**
⑬ **TAPE I Eject button (▲)**
⑭ **ᗡᗞ (DOLBY*) NR ON/OFF button**
Each time this button is pressed, DOLBY NR system turns ON and OFF.

* ● *Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.*
● *"Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation*

CD PLAYER



CD PLAYER

① **Disc insert position**
② **Eject button (▲)**
③ **Headphones jack**
④ **RANDOM button**
⑤ **Forward Manual/Track search button (▶▶|)**
⑥ **Play/Pause button (▶/II)**
⑦ **Stop button (■)**
⑧ **Reverse Manual/Track search button (|◀◀)**
⑨ **PROGRAM button**
⑩ **DISPLAY button**
⑪ **Disc indicator**

■ Auto Function

This model is equipped with "Auto Function" operation, so when the switch for PLAY/PAUSE, PLAY (tape) or FM and AM (AM/FM with the remote control unit) is pressed, the function switches automatically. Use the FUNC button on the remote control unit to select the component connected to the AUX/CD II IN jacks, since the Auto Function is not effective for this.

NOTE:
The function cannot be switched during recording and tape copying.

10. SPECIFICATIONS

STEREO CD CASSETTE DECK RECEIVER

Amplifier section

<XR-P360G/XR-P360>

[FRONT]

Continuous Power Output (RMS)	70 W + 70 W (1 kHz, T.H.D. 10%, 6 Ω)
(PMPO)	1000 W

- *Above specifications are for when power supply is 230 V.*

FM/AM Tuner section

FM tuner section

Frequency Range	87.5 MHz to 108 MHz (except S/DF model) **76.0** MHz to 108 MHz (S/DF model only)
Antenna input	75 Ω unbalanced

AM tuner section

Frequency Range	
With 9 kHz step	SD/SL (531 kHz to 1,602kHz) S/DF (**522** kHz to **1,629** kHz)
With 10 kHz step	(530 kHz to 1,700 kHz)
Antenna	Loop antenna

Miscellaneous

Power Requirements	110 – 127, 220 – 230, 240 V AC 50/60 Hz (SD, S/DF model only) 110 – 120, 220 – 230, 240 V AC 50/60 Hz (SL model only)
Power Consumption	385 W

CD section

Type	Compact disc digital audio system
Wow and Flutter	Limit of measurement (±0.001 % W.PEAK) or less (EIAJ)

Cassette deck section

Systems	4 track, 2-channel stereo
Heads	Recording/playback head x 1 Playback head x 1 Erasing head x 1
Motor	DC servo motor x 1
Tape type	TYPE I (Normal) tape / TYPE II (HIGH/CrO_2) tape
Dimensions	240 (W) x 270 (H) x 344.5 (D) mm
Weight (without package)	7.1 kg

Accessories

Operating instructions	1
Remote control unit	1
FM T-type antenna	1
AM loop antenna	1
Size AAA/R03 dry cell batteries	2

NOTE:

Specifications and design subject to possible modification without notice due to improvement.